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The Digital Health Technologies (DHT) Stream prepares a new generation of professionals working in healthcare with a curriculum that has three main pillars: data science, healthcare regulation and business training. Students learn an eclectic array of skills to tackle problems in the healthcare industry such as: machine learning, coding, data visualization, data cleaning, web design, medical device reimbursement, social media analytics and healthcare product regulation. Candidates for the DHT stream have some knowledge of the life sciences coupled with evidence of a strong aptitude for analyzing data.

DHT falls under the umbrella of the Master of Biotechnology program (MBiotech). The MBiotech program now has 2 streams: Digital Health Technology and Biopharma. Over the past 19 years, MBiotech has built an enviable roster of sustained relationships with its many major sponsors in the industry, and continues to offer excellent opportunities to all of its students. Likewise, our sponsors are vocal about the benefits such placements bring to their operations. Many of the big players in the biopharmaceutical industry, in particular, are enthusiastic supporters of MBiotech, recognizing the unique blend of science and business skills that our co-op students can offer, and continue to post highly sought-after opportunities year in and year out.

DHT follows the same internship program as set by the highly successful biopharma stream. Our goal is to give our students a firm foothold on the career ladder in healthcare, and this pledge is backed by an unbeaten track record of success for placements both in big, established Pharma, as well as in smaller biotech and health tech companies. Very many graduates leap straight into a full-time career with our sponsors, and nearly all find employment quickly after graduation day. Conversely, MBiotech students on their co-op placements serve as ambassadors for the Program and reinforce our brand excellence, so it is critical to our future successes that our students represent your company, the University and the Program with commitment and professionalism.

Nazeem Shamsuddin, our Senior Research Associate, has a wealth of experience to help guide our students and employers through the application, interview preparation and decision-making process and will be on hand to offer advice at every stage. As with every DHT class, there will be hot competition, and some tough choices to make for all of our students and industry partners. We have actively encouraged all of our students to embrace these opportunities and to learn from them as they take the next steps towards their new careers; and we would like to take this opportunity to thank all of our corporate partners for their renewed support this year: You are fundamental to our success!

Dr. Leigh Revers, M.A. (Oxon), D.Phil.
Director, Master of Biotechnology
Associate Professor (Teaching Stream)
MBiotech: Where Science Meets Business

The MBiotech Program is a 24 month, course-based professional degree program offered through the Institute for Management & Innovation at the University of Toronto Mississauga. Offering streams in both Biopharmaceuticals and Digital Health Technologies, the program incorporates both science and business courses with 8 to 12 months of work experience in industry. The carefully selected combination of courses, coupled with relevant industry experience and a strong focus on teamwork, provides our graduates with a truly interdisciplinary educational experience at a world-renowned university.

The program was launched in 2001, with the goal of developing biotechnology professionals with scientific and management skills for the biotechnology industry. The MBiotech Program is specifically tailored to meet the evolving needs of our students and those of the global biotechnology and health sciences sectors.

DHT: Digital Health Meets Data Science

Digital Health Technologies (DHT) Program’s focus of training is data science and will include advanced training in machine learning tools. It is a 2-year professional masters program that will involve 8-12 months of placement in industry through paid student internships. Students will learn about basic business, health, regulation and data science.

The digital health field is diverse and includes: bio-physics, mobile medical apps, health information technology, electronic medical records, software and cybersecurity, health information technology and wearable technology. DHT is an area that invites a spectrum of expertise that goes beyond engineering and design.

We are committed to:

- Working closely with industry and developing a graduate program that meets the needs of current employers
- Providing a broad background of in-depth classroom and laboratory based courses relevant to the biotech and health tech industries
- Introducing students to a wide range of biotechnology and digital health tech niches in the workplace
- Developing strong business and interpersonal skills in our graduate students
- Interfacing with a wide range of biotechnology, pharmaceutical, and digital health tech through internships
DHT curriculum is comprised of 9.5 graduate course credits over a 24-month period on a full-time basis. These 9.5 credits are comprised of the following:

- 8 Science courses
- 3 Business courses
- 2 Programming courses
- 3 Work Term courses

**Science Courses:**
- Medical Device Reimbursement
- Data Science in Health I
- Data Science in Health II
- Digital Ethnography in Health
- Introduction to IT consulting and Web Design
- Data Science and Digital Health Technology
- Biopartnering Seminar I
- Biopartnering Seminar II

**Business Courses:**
- Effective Management Practices
- Fundamentals of Managerial Concepts
- Management of Technological Innovation

**Programming Courses:**
- Intro to Computer Programming
- Information & Data Visualization in Science and Medicine

**Work Term**
- Work Terms I, II and III
- Internship Placements

The DHT field involves three main pillars:

1. Health & Regulatory
2. Data Science
3. Business

Students will learn about chronic diseases and health & wellness related issues including emerging technology. Data science combines advanced statistical training with domain knowledge about healthcare and specific diseases, and students will be introduced to basic business concepts to understand profit drivers in this sector.
STUDENT QUALIFICATIONS

Training today’s innovative scientists to become tomorrow’s business leaders.

Our students have a professional mindset, as well as a broad spectrum of learning acquired through this innovative program that focuses on topics of special relevance in today’s digital health space. Digital Health Technologies (DHT) stream prepares a new generation of professionals working in healthcare with a curriculum that has three main pillars: data science, healthcare regulation and business training.

Our Students’ qualifications:

• Diverse graduate and undergraduate backgrounds in a wide-range of disciplines including (but not limited to): biology, chemistry, physics, public health, statistics, computer science, engineering, epidemiology
• Highly qualified, bright, committed individuals eager to learn and make the most of their internship opportunity
• Students learn an eclectic array of skills to tackle problems in the healthcare industry such as: machine learning, coding, data visualization, data cleaning, web design, medical device reimbursement, social media analytics and healthcare product regulation
• Future team leaders with a firm understanding of organizational skills and the importance of working together to benefit your team

Internships are arranged on a full-time, 4-month renewal basis and can be extended for up to 12 months. Placement timing is flexible and coordinated through the calendar year, commencing every May.

This Student Profile Directory is a guide created for employers and industry partners in order to introduce you to our students. The students presented in this guide are seeking 4, 8, or 12-month work terms beginning in May 2022, September 2022, or January of 2023. Our students have multi-disciplinary science backgrounds combined with business aptitude, excellent communication skills and teamwork abilities. The versatile nature of DHT students will make them valuable contributors to your organization.

Why Hire a DHT Student?

Excellent Recruitment Tool
• Students are rigorously pre-screened by the Program Office

Co-ops Are Competitive
• Our salary guidelines are in the range of $24–$28 per hour, and as they are students no benefits packages are needed

Fringe Benefits For You
• Employers can benefit from substantial tax incentives! See the section on salary guidelines for more information
As part of our unique program, students take up to three consecutive work-terms with top employers across Ontario and beyond. All internships are arranged through our Senior Research Associate, where each placement is full time and a minimum of 4 months in duration. As such, co-ops can be extended/renewed up to a maximum of 12 months. Placement time is flexible and is coordinated throughout the calendar year.

**CRITERIA FOR CO-OP PLACEMENTS**

Each 4-month co-op placement is classified as a required course for the DHT program. As such, students receive academic credit for each placement they successfully complete. Specific criteria must then be satisfied to ensure students receive appropriate credit. Please see below for a full listing of required criteria.

*Co-op placements must:*

- Be full-time for a minimum of four months (greater than 35 hours per week)
- Have a designated, qualified person responsible for evaluating the student’s progress (please see adjacent section on ‘evaluation component’)
- Provide the student with in-depth exposure to the employer’s organization
- Be developed and/or approved as a suitable setting for higher learning
- Be monitored by the Placement and Employer Relations Manager
- Completion of Employer-Student Evaluation. For each 4-month work term the direct supervisor is required to submit a Student Evaluation in the form of a survey
The work terms for DHT students are generally paid positions, with an average salary range of $24-$30 per hour. As DHT co-ops are students, salary packages generally do not need to include extended benefit plans. Employers may be eligible for the following **tax incentive program**, in regards to hiring DHT students:

**Cooperative Education Tax Credit**

The Co-operative Education Tax Credit (CETC) is a refundable tax credit. The CETC is available to employers who hire students enrolled in a co-operative education program at an Ontario university or college. The Canada Revenue Agency (CRA) administers the program on behalf of Ontario through the federal income tax system.

The CETC is based on salaries and wages paid to a student in a co-operative education work placement. The maximum credit for each work placement is $3,000. Most work placements are for a minimum employment period of 10 weeks up to a maximum of four months.

For more information on hiring an MBiotech student:

Nazeem Shamsuddin  
Senior Research Associate  
Master of Biotechnology  
INSTITUTE FOR MANAGEMENT & INNOVATION  
Innovation Complex, KN 2258  
3359 Mississauga Rd | Mississauga, ON L5L 1C6 | Canada  
905-569-4736 | nazeem.shamsuddin@utoronto.ca  
www.mbiotech.ca
STUDENT PROFILES
SUMMARY OF SKILLS AND ACHIEVEMENTS

- Proven ability to find innovative and creative solutions gained through various work and school projects
- Experience with a lot of hands-on coding, and problem solving in languages of Python, C/C++, SQL, Java, R, and MATLAB with the interest in learning more about software programming.
- Organized, self-motivated, and self-directed with excellent project management skills
- Excellent oral and written communication skills gained through various interactions with teams of all sizes and backgrounds from time as an Air Cadet Volunteer and a Math tutor.
- Experience in leadership as a senior cadet and volunteer in the Royal Canadian Air Cadets. Understood aspects of leadership and teamwork through real-world experiences

EDUCATION

- Master of Biotechnology, Digital Health Technologies stream, University of Toronto, Class of 2023
- Honors Bachelor of Engineering, Biomedical Engineering, Ryerson University, Class of 2020

EXPERIENCE AND QUALIFICATIONS

- System Analyst (IBIGroup) – Supported the Ohio Department of Transportation to problem solve issues that occur in the software systems IBI provides to monitor traffic.
- Systems Engineering Associate (Ministry of Transportation) – Supported the integration, testing and troubleshooting of non-Intrusive traffic sensors. Diagnosed and coordinated with maintenance team to address issues related to overhead highway sign messages daily
- Autonomous Robot Porter (Capstone Project) – Used the OpenCV library on python to analyze each picture frame the camera attached robot views to match with the correct direction the robot should traverse using the ORBSLAM algorithm and matching features.
- Biomedical Signals Machine Learning Project - Analyzed the EEG waves of individuals who suffered from alcoholism as well as a control group. Discovered the beta wave isn’t as active in the individuals that suffer from alcoholism compared to the control group through the support vector machine (SVM) learning algorithm.
- Patient Register - Used C++ object-oriented programming design to create a patient register for women in labor. They are periodically checked upon using the FIFO method. when their cervix diameter surpasses a certain threshold, they are admitted and removed from the register.

PERSONAL INTERESTS

- Music – Drums, Trumpet, Steel Pan, Piano, and listening to various types of Music
- Teaching – Math Tutor and Cadet Instructor
SUMMARY OF SKILLS AND ACHIEVEMENTS
• Highly adaptable individual with excellent verbal and written communication skills developed and refined through various sales, marketing, and research positions
• Strong critical-thinking skills derived from my technical experience with RStudio, Python, and MS Excel (for basic analysis).
• Momentum motivated mindset which revolves around the need for proficiency, efficiency, and mastery
• Excellent time management skills developed via balancing full-time education and part-time employment while adhering to my extracurricular commitments

EDUCATION
• Master of Biotechnology, Digital Health Technologies stream, University of Toronto, Class of 2023
• Bachelor of Science (Honours), Biology, Acadia University, Class of 2020
• Dean’s list: 2016–2017 and 2018–2019

EXPERIENCE AND QUALIFICATIONS
• Research Coordinator, Hillier Lab, Acadia University – Designed novel methodologies and developed the first electrophysiological assay to successfully test for spider mite olfaction. Used various parametric/non-parametric tests and learned operations involving an SEM, GC-MS, and GC-FID
• Co–op Internships, Midgard Farms Ltd.:
  • Cricket Care Technician – Drafted standard operating procedures for a local start-up and streamlined pre-existing procedures which effectively increased net production by 37%. Composed data frames for record keeping for further statistical analysis.
  • Research Associate – Drafted research proposals, conducted preliminary experiments and presented patent applications of interest directly to supervisor
• Volunteer Supervisor, Acadia Medical Campus Response Team – Provided immediate medical care to students at campus events. Delegated tasks and appointed roles within our assigned teams during duty
• Junior Sales and Marketing Representative, Impact Industries – Composed and perfected a persuasive sales pitch using company learnt concepts and earned 7th highest sales in Atlantic Canada.

PERSONAL INTERESTS
• Personal finance, minimalism, NBA, music production, neuropsychopharmacology, and health/overall well-being.
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Self-motivated, results-driven student who consistently completes tasks at a high level of excellence.
• Refined written and verbal communications demonstrated through award-winning poster presentations at St. Michael’s Hospital and a highly-graded thesis presentation.
• Robust statistical reasoning skills and proven adaptability to new challenges exemplified through 2+ years of refining code in academic research.
• Thrives in active leadership roles such as Western Field Hockey Captain and highly collaborative in team building situations.
• Proficient in R, Excel and GraphPad with introductory knowledge in Python and C.

EDUCATION

• Master of Biotechnology, Digital Health Technologies stream, University of Toronto, Class of 2023
  • Merck Graduate Scholarship in Biosciences and Biotechnology ($4,600)
• Bachelor of Medical Sciences (Honours Specialization: Physiology and Pharmacology), Western University, Class of 2021
  • Western Continuing Admissions Scholarship ($10,000); Dean’s Honor List 2018-2021

EXPERIENCE AND QUALIFICATIONS

• Graduate Researcher, University of Toronto - Applied strong understanding of physiology and medical device regulation to construct an ancestry timeline of the cardiopulmonary bypass machine: revealed “design creeps” that may necessitate device re-classification.
• Research Assistant (Neurosurgery Department), St. Michael’s Hospital – Leveraged R in independent pilot study to sort 417 glioblastoma (GBM) bulk tissue expression samples. Presented at the Vector Institute for Artificial Intelligence and won 1st Place (Clinical Science Category) at the 2019 KRSS Poster Competition.
• Honours Thesis Student (Timney Lab), Western University - Led and analyzed datasets from 10,000+ psychophysical motion detection trials to further understanding of human acceleration detection.
• 2019-20 Team Captain and MVP, Western Varsity Field Hockey - Motivated 25 teammates through 30+ hours of weekly training, co-ordinated team travel logistics, liaised between coaching staff and team recruits to facilitate smooth onboarding of new players.
• Charity Commissioner, Western Science Student Council - Led team of 12 committee members in execution of various initiatives including the collection of 100+ holiday letters for seniors at Fox Hollow Seniors Home and 40+ winter jackets and boots for donation to the Salvation Army.

PERSONAL INTERESTS

• Personalized medicine, playing sports, Bhangra dance, reading and cooking
SUMMARY OF SKILLS AND ACHIEVEMENTS

- Highly tenacious, adaptable and motivated to excel and deliver high quality results
- Proven flexibility, organization, and time management skills by consistently achieving high academic standing alongside employment and volunteer activities
- Exceptional leadership and interpersonal skills developed through experiences in academic mentoring/student coaching and healthcare services
- Excellent scientific and written communication skills gained from academic projects
- Advanced critical thinking, problem solving skills and an analytical mindset cultivated through chemistry, biostatistics and data background
- Trained in accounting, statistics and coding platforms such as QuickBooks, Excel, and R with introductory knowledge in JavaScript, Python, and SQL

EDUCATION

- Master of Biotechnology, Digital Health Technologies stream, University of Toronto, Class of 2023
- Honours Bachelor of Science with Distinction, Double major in Biology for Health Science and Chemistry, University of Toronto, Class of 2021

EXPERIENCE AND QUALIFICATIONS

- Clinical Assistant – Improved clinic efficiency by accelerating the digitization process for physical patient health records, completed all clinical and administrative tasks as required by the physician, familiarized with medical terminology through taking medical histories, assisting with consultation referrals, preparing vaccines and updating immunization records, trained all new staff to handle clinical duties
- Private Math and Science Tutor, Co-Founder of Kalsi Tutors – Tutored and mentored high school math and science students, established a profitable business by crafting a network of tutors and students
- Volunteer, Mississauga Hospital – Greeted, guided, and assisted patients and visitors, throughout the hospital. Volunteered in various departments to assist productivity and improve patient’s overall experience by rounding patient rooms and assisting in patient discharging
- Volunteer, Let’s Talk Science – Engaged with children, youth, and adults through schools, libraries, and community events by leading hands-on science modules and discussions to develop and improve their STEM knowledge
- Administrative Volunteer, Region of Peel Public Health Clinic – Updated patient documents, and assisted with computer data entry, provided overall support as required

PERSONAL INTERESTS

- Travelling, Teaching, Sports, Playing the Piano, Listening to Music
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Research scientist with over 10 years of experience in medical education, public health, clinical and basic science research.
• Detail oriented individual with proficiency in clinical and research sciences
• Excellent communication skills in multiple languages
• Evidence-based-medicine researcher with years of experience with systematic reviews and network meta-analysis
• Efficient time management skills and a team player
• Poster presentations in AMEE Conference (Lyon, France)
• Triage Lead & Member in Earthquake Disasters. Haiti 2010, Pakistan, 2005 & 2010

EDUCATION

• Master of Biotechnology, Digital Health Technologies stream, University of Toronto, Class of 2023
• Clinical Research Associate Certificate, Starmed Medical Education Program, 2021
• Doctor of Medicine (MBBS), Shifa College of Medicine, Pakistan, 2010

EXPERIENCE AND QUALIFICATIONS

• Research Consultant (Medical writer), McMaster University 2013- present
• Research Assistant, Orthopedics and Trauma Lab, McGill University 2006
• Physician Assistant, Scarborough, ON. 2011- 2012
• Student Reviewer/Examiner, Sharjah University, Sharjah, UAE 2007-08
• Lead Triage & Member in Earthquake Disasters. Haiti 2010, Pakistan, 2005 & 2010
• Computer technician, Northronics SDN BHD, Kuantan, Malaysia 2000-03

PERSONAL INTERESTS

• Application of AR/VR in surgical simulation and medical education
• Deep Learning and Machine Learning in Image analysis
• Soccer, tennis, snowboarding, hiking, running, reading, videogames & bachata
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Diligent, enthusiastic, and organized individual prepared to offer best efforts in delivering and enhancing project outcomes
• Outstanding leadership qualities and warmhearted attitude honed through multiple teaching, mentorship, and executive roles
• Robust science communication and graphic design skills with Biorender, Canva, and Adobe Illustrate refined through establishing and leading a scholarly undergraduate science journal, Sciential
• Proficient with clinical data analysis, as well as statistical and coding platforms including R, C++ (differential gene expression analysis; comparative genomics), SPSS, Tableau (data visualization), Blender 2.8 (3D Modelling software), and Crimson Hexagon (social media analytics)

EDUCATION

• Master of Biotechnology, Digital Health Technologies stream, University of Toronto, Class of 2023
• Honours Bachelor of Science, Life Sciences Co-op, McMaster University, 2021

EXPERIENCE AND QUALIFICATIONS

• Clinical Research Assistant, Bowdish Lab, McMaster University – Supported the design of COVID-19-related study, coordinated participant recruitment and visits, and conducted sample collection and data analysis
• Undergraduate Honours Thesis, Campos Lab, McMaster University – Proposed and executed whole transcriptome differential gene expression analysis to study regeneration in metazoans
• Teaching Assistant, McMaster University – Instructed 25 students on the process of scientific investigation, graded over 100 written works and examinations, and facilitated in-class discussions and activities for the second-year Research Methods and Genetics courses
• E-Learning Module Developer, McMaster University – Led and managed a team of students in the development of accessible, application-based e-Learning modules for Human Nutritional Toxicology, Bioinformatics, and Genetics courses
• Co-founder, Editor-in-Chief, Sciential – Founded a scholarly undergraduate science journal, and managed the Editorial team to facilitate the publication of over 60 academic works
• Co-president, MAC in Support of SickKids Student Club – Initiated a major fundraising campaign, established an official partnership with SickKids Foundation, and presented at four conferences organized by the club discussing novel research from SickKids Hospital

PERSONAL INTERESTS

• Chess, interior design, mentorship, crafts, studies in mental health and addictions
SUMMARY OF SKILLS AND ACHIEVEMENTS

- Excellent managerial and team leadership skills developed over 7+ years working as an assistant department manager in a high pace service industry environment
- Frequently described by colleagues as a responsible, passionate, hard-working and empathetic person with a natural propensity to optimize
- Effectively demonstrated enhancing organizational systems and orienting teams toward big-picture thinking in academic and corporate settings, and teamwork play environments
- Built from the ground up, managed and led, an online international community of several hundred players over a period of 3.5 years, focusing on providing and maintaining a healthy, cohesive community while competing in a high pace, challenging environment
- Software proficiency: R, Python, Arduino, Image Lab, Excel, Word, PowerPoint

EDUCATION

- Master of Biotechnology, Digital Health Technologies stream, University of Toronto, Class of 2023
- Honors Bachelor of Science, Molecular biology specialist with a minor in chemistry, class of 2019. Graduated with distinction and made Dean’s honor list in 2016.

EXPERIENCE AND QUALIFICATIONS

- Researcher, Advanced Interdisciplinary Research (AIR) lab, 2018-2019
  - Took on the responsibilities of a researcher, molecular biologist, chemist and electrical engineer as was needed by ever evolving project requirements
  - Managed project budget and led the team through AGILE management strategy
- Lab Assistant, Amgen Biotech Experience, Summer 2018
  - Volunteered introducing science to kids from underprivileged communities
  - Effectively communicated complex scientific concepts to a novice audience
- Assistant Produce Manager, Real Canadian Superstore 2008-2015
  - Entrusted with supervision and leadership duties, including mentoring and training
  - Regularly procured and managed department stock valued at over $50,000
  - Union steward and member of the Health and Safety committee.
- Prior roles
  - Lifeguard, Canada’s Wonderland Theme Park
  - Rank of Private, Canadian Armed Forces Reserves

PERSONAL INTERESTS

- Mixed Martial Arts, Soccer, Astronomy, Contributing to fields of human health and lifespan
SUMMARY OF SKILLS AND ACHIEVEMENTS
• Experienced with financial and economic analysis and applied game theory through extracurricular projects
• Strong analytical skills, had high academic standing with undergraduate Economics minor
• Eager to take on challenges, demonstrated by multidisciplinary academic background ranging through biochemistry, economics, data science and commerce
• Proficient education and application of R and Excel through courses, projects and volunteer experience
• Dedicated team player and problem solver, experienced with group projects and leadership roles
• Excellent interpersonal skills, demonstrated through 3 years of customer service and teaching experience

EDUCATION
• Master of Biotechnology, Digital Health Technologies stream, University of Toronto, Class of 2023
• Honours Bachelor of Health Sciences in Biomedical Discovery and Commercialization with a minor in Economics, Summa Cum Laude, McMaster University, 2021
• 1st place winner of McMaster Graduate Management Consulting Association’s Management Consulting Case Competition, 2021
• Bloomberg Market Concepts certification, 2020

EXPERIENCE AND QUALIFICATIONS
• Undergraduate Honours Thesis, Hawke Lab, McMaster University – analyzed microarray data from muscle biopsies of type 1 diabetic and control mice (grade: 12.0/12.0)
• Student innovator, FERO International Inc. – helped write a commercialization plan, focused on revenue generation, profitability, market research and implementation plan.
• Science Tutor, MacBridge Academy – mainly tutored grade 12 sciences, created personalized lesson plans and quizzes based on school curriculum.
• VP Finance, multiple student clubs at McMaster – Effectively managed over $25,000 of cash flow, wrote financial statements, budgets, sponsorship packages and managed all revenues, expenses and reimbursements
• Client Success Intern, RL Datix – participated in external and internal meetings, helped write a Professional Services playbook.
• Ice skating and dance instructor, City of Toronto – created lesson plans, taught children and adults, managed report cards and organized recitals

PERSONAL INTERESTS
• Professional: health economics, management consulting, business strategy
• Personal: figure skating, ballet, yoga, travelling, reading
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Highly motivated, resourceful, and detail-oriented with a passion for further developing skills and knowledge related to the health technologies field.
• Excellent communication and collaboration skills that have been strengthened through numerous leadership positions on student-led organizations and teams.
• Strong critical thinking and problem-solving skills demonstrated through an honours thesis in Clinical Studies.
• Dedicated team player with superb time management skills as proven through commitment to extracurricular involvement while maintaining high academic standing.
• Proficient in R and Python with experience in other programming languages such as Java and C.

EDUCATION

• Master of Biotechnology, Digital Health Technologies stream, University of Toronto, Class of 2023
• Honours Bachelor of Science, Bio-Medical Science, University of Guelph, Class of 2021
• Mitacs Research Training Award 2020, Dean’s Honours List, 2018-2021

EXPERIENCE AND QUALIFICATIONS

• Mitacs Research Intern & Undergraduate Honours Thesis, University of Guelph – Led project investigating the role of macrophages within the myocardium of felines suffering from hypertrophic cardiomyopathy.
• Director, Spero Foundation – Co-founded an incorporated and student-led non-profit organization dedicated to the support of impoverished individuals in Toronto, Ontario.
• Founder & Developer, RunBy – Developed a mobile app with the goal of providing users with up-to-date information on nightlife establishments in Guelph, Ontario. Responsible for all aspects of app growth and success (marketing, business strategy, etc).
• Sales Associate, The Source – Responsible for meeting monthly sales targets by practicing effective sales techniques and building strong client relationships with customers.
• Clinic Volunteer, Bristol Veterinary Clinic – Shadowed veterinarians and performed a wide range of administrative duties over 350 hours of clinical volunteering.

PERSONAL INTERESTS

• Programming & app development, playing soccer or golf, spending time outdoors
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Dedicated to consistently delivering high quality work and implementing constructive feedback for the future
• Trained in R with introductory knowledge of HTML/CSS, C, MATLAB and Python
• Exceptional leadership skills developed through positions as team manager and club president
• Proven successful time management skills by successfully managing full-time school, part-time employment, and volunteer activities simultaneously
• Strong critical thinking demonstrated through academic success in biomedical physics
• High level of proficiency with Canva and Adobe InDesign.

EDUCATION

• Master of Biotechnology, Digital Health Technologies stream, University of Toronto, Class of 2023; Class Representative
• Honours Bachelor of Science in Medical & Biological Physics with Highest Distinction, McMaster University, Class of 2020

EXPERIENCE AND QUALIFICATIONS

• McMaster Esports, President - Oversaw all competitive esports team activities and casual events for the gaming community at McMaster University. Obtained sponsorship deals from companies such as Mike’s Computer Shop, Asus, and Tespa. Invited to attend Tespa Leadership Retreat in Irvine, CA and speak about esports at McMaster’s World Congress (2018).
• McMaster Esports, Team Manager - Kept a strict practice and meeting schedule for all team players and staff. Received scholarships for outstanding team and staff performance from Riot Games.
• Math & Science Instructor, Locomotive Education - Prepared weekly lessons and worksheets for elementary and high school students.
• Fraud & Disputes Agent, Rogers Bank - Assisted customers with preventing or mitigating fraudulent activity with their credit cards.
• Judge, IMPACT Project - Worked collaboratively with students in the faculties of science, occupational therapy, and engineering to design products to assist persons with physical disabilities.

PERSONAL INTERESTS

• Puzzles of any kind, video games, comics, mythology, piano, cooking
Kevin Schubert

SUMMARY OF SKILLS AND ACHIEVEMENTS
- Highly proficient in back-end development: Java, Python, SQL, Scala, Spark, C
- Proficient in front-end development: Javascript, HTML, .css, JSON
- Proficient in data analysis & visualization: R, Tableau, Pandas, NumPy
- Proficient in project management: Agile, Scrum, version control, backlog task management
- VoterDrive (2018) – Competed in an IBM sponsored UIX design competition. Designed prototypes based off of corroborated voter research to improve voter turnout.
- Predicting Breast Cancer (2020) – Utilized Python to identify promising features, & visualize various 2D & 3D linear models developed via supervised learning.
- Cardiovascular Analysis (2020) – Cleaned & analyzed the National Health & Nutrition Examination Survey conducted by the CDIC; publicly presented findings in Tableau.

EDUCATION
- Master of Biotechnology, Digital Health Technologies stream, University of Toronto, Class of 2023
- Bachelor of Science (Honours) – Pharmacology & Computer Science – Class of 2019
- Dean’s List Scholar (2015-2019); graduated with High Distinction
- Stanford University – Certificate of Machine Learning (2020)
- BrainStation – Certificates of Data Science (2020) & Data Analytics (2020)

EXPERIENCE AND QUALIFICATIONS
- Software Developer & Data Scientist, Tata Consultancy Services – Contributed to features & applications for AML/KYC ML pipelines. Worked with Spark, Scala, SQL, & PySpark. Created in depth manuals for new on-boarders.
- Volunteer, Mount Sinai Hospital – Engaged & comforted patients while liaising with the overseeing team of healthcare providers. Up-to-date immunizations/vaccinations.

PERSONAL INTERESTS
- 3D Printing, painting, tabletop hobbies, dance, piano, saxophone, robotics
SUMMARY OF SKILLS AND ACHIEVEMENTS
• Highly driven and motivated to develop mastery over technical skills and interests
• Exceptional time management, multi-tasking, and organizational skills that are essential for meeting deadlines in a time-conscious manner
• Excellent communication and leadership skills, demonstrated through teaching, student leadership, and volunteer experience
• Strong problem-solving, critical thinking, and analytical skills developed through work experience
• Technical experience in Python, as well as R, SPSS, and Excel for data analysis

EDUCATION
• Master of Biotechnology, Digital Health Technologies stream, University of Toronto, Class of 2023
• Honours Bachelor of Science – Co-operative Biochemistry, Class of 2021

EXPERIENCE AND QUALIFICATIONS
• Biomedical Research Assistant, University Health Network – Conducted organic synthesis, purification, and characterization of novel fluorescent dye molecules for use in novel nanotherapies
• Nanoparticle Research Assistant, University of Calgary – Designed, troubleshoot, and selected experimental conditions based on literature, bioinformatics, and consultations with specialists for biosynthesis of semiconductor nanoparticles for biomedical use
• Chemistry Teaching Assistant, University of Waterloo – Facilitated weekly second-year undergraduate organic chemistry laboratory sections and ensured understanding by providing individualized feedback
• Private High School Math and Science Tutor – Improved student understanding by designing personalized lesson plans and worksheets and attentively working with students to complete homework assignments
• Executive Team Member, University of Waterloo Biochemistry Students Association – Organized and coordinated social and professional events, and communicated action plans to professors and classes via written and oral methods

PERSONAL INTERESTS
• Cross country running, nanotechnology, nonogram puzzles, reading self-improvement books and memoirs, pop music, watching Jeopardy!, playing Scrabble and Tetris
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Highly skilled at multitasking and managing priorities in high-pressure working environments
• Strong scientific background in cell biology, human genetic and drug development process in related fields
• High proficiency in R, Tableau and SQL with introductory knowledge in python
• Exceptionally self-motivated with strong self-learning ability and time management skills
• Excellent data analytic and presentation skills developed through conducting academic research
• Exceptional interpersonal skills developed through volunteering and internship
• Bilingual in Chinese (Mandarin) and English

EDUCATION

• Master of Biotechnology, Digital Health Technologies stream, University of Toronto, Class of 2023
• Honors Bachelor of Science in Human Biology: Fundamental Genetics & Application Specialist program, University of Toronto, Class of 2021
• Dean’s List Scholar (2017 – 2018 and 2019 – 2021), University of Toronto, and Graduation with High Distinction

EXPERIENCE AND QUALIFICATIONS

• Certified by the Medical Affairs Competency Certificate (MACC) Program, Accreditation Council for Medical Affairs, completed in 2021
• Research Assistant & Bachelor Thesis Researcher in Digital Technologies and Dementia Care, DATE Lab, KITE Research Institute – Investigating the effects of motion-based technologies on cognitive functions of people with cognitive impairment
• Interdisciplinary Trainee Research Innovation Challenge Program (iTRIC), Received a runner-up award supported by Canadian Institutes of Health Research and the Alzheimer Society of Canada
• Research Student in Fundamental Genetics, University of Toronto, Research project included:
  • Genetically modified BFP cells to GFP cells
  • Developed proposal for an innovative treatment for muscular dystrophy using non-homologous end joining approach to delete exon containing a premature stop codon
• Lab Assistant Intern, Amoytop Biotech Company, China – Managed cell cultures and lab equipment availability, assisted R & D team with data entry and analysis

PERSONAL INTERESTS

• Bodybuilding, basketball, skiing, personal finance
University of Toronto Mississauga
uoft.me/DHT

For more info:
mbiotech@utoronto.ca