RILEY EATON

ryeaton@student.ubc.ca | +1 (905) 767 0851 | github.com/rileyeaton-ubc | British Columbia, Canada

EDUCATION

The University of British Columbia, Canada
Master of Science in Computer Science
Conducting Research and Development in collaboration with BC Cancer
2024 – 2026

Awarded the UBC Okanagan Graduate Research Scholarship in recognition of academic achievement.

Notable Graduate Coursework: Software Engineering, Modelling & Simulation, Independent Research (Machine Learning for Medical Physics applications), Computer Vision, Advanced Networking, and Data Wrangling for Medical Imaging.

Trent University, Canada
Bachelor of Science Honours in Computer Science
Specializing in Theoretical Computer Science and Data Analytics
2019 – 2023

Awarded Dean's Honour Roll

Notable Coursework: Advanced Algorithms, Artificial Intelligence, Data Mining, High-Performance Computing, Comparative Programming Languages, Modelling and Simulation, Formal Languages and Automata, Data Structures, Human-Computer Interaction, Computer Crime and Forensics, Digital Logic, and Operating System Fundamentals.

RELATED EXPERIENCE

Graduate Student, Software Engineering & Data Science – *BC Cancer*
September 2024 – Present, Kelowna, BC, Canada

Working in the Department of Medical Physics under supervisor and adjunct professor, Dr. Rasika Rajapakshe. Research and development projects primarily focused on medical imaging of Lung Cancer patients. Responsible for building data pipelines to enable further development of Artificial Intelligence (ML models) for image analysis and early detection.

Avionics Team, Rocketry Division – *UBC Aerial Robotics and Rocketry Club*
September 2024 – Present, Kelowna, BC, Canada

Building autonomous control systems for high-power hybrid rocket motors, flight telemetry, and controlled descent mechanisms. Will be participating in Launch Canada 2025 using a fully Student Researched and Designed (SRAD) flight computer.

Solutions Architect, Data & AI – *IBM*
June 2023 – August 2024 *(1 year, 3 months)*, Toronto, ON, Canada

Focused on securing technical wins through developing and delivering custom demonstrations, proof of concepts, hands-on workshops, solution designs (architecture proposals, HW/SW requirements, etc.), and minimum viable products. Delivered these solutions to our clients, ranging from individuals on hands-on teams to executives at the C-suite level.

In 2023, achieved over 450% of combined full-year quotas. As a result, was invited to join IBM's Golden Circle in 2024. Additionally, ranked among the top 1% at IBM for yearly learning achievement. Following this, was promoted and given

the opportunity to oversee an expanded territorial coverage that includes enterprise clients in Manitoba, Saskatchewan, and all 4 provinces in Atlantic Canada, in addition to Ontario. This role also encompasses the much larger Information Architecture portfolio, which comprises IBM's Data Management, Data Fabric (data governance, integration, observability, lineage, master data, data science, etc.), and watsonx (generative AI, AI/ML governance, and Data Lakehouse) products.

Software Engineering Intern, Full-Stack – *IBM*
May 2020 – May 2023 *(3 Years)*, Toronto, ON, Canada

Began first full-time internship in May 2020 and was subsequently asked to return for both student on-call positions (8-month school/work term) and repeated internships (4 month full-time term). Was accepted back for three of each in total, ending in April 2024. Worked alongside a team of full-stack developers in first term to build automation and productivity tools for skills development. With each new position, the focus remained on maintaining projects built in previous internships, as well as taking on larger, solo projects. These primarily consisted of tools to assist sales enablement professionals with day-to-day workflows. Worked collaboratively with a larger team in final term, using agile development practices to build a new IBM learning platform from the ground up. This focused on promoting learning across all of IBM sales and in subsequent years was used by (and notified) over 14,000 sales professionals and 800 sales executives.

Undergraduate Grader, Computer Science – *Trent University*
Jan 2022 - Apr 2022 *(4 months)*, Peterborough, ON, Canada

Worked alongside professor to promptly grade course material submitted by students, providing useful feedback to over 200 students on C# programming and related theory (COIS 1020H - Programming for Computer Science).

PROFICIENCIES

Technical Skills

Microcontrollers, Avionics, Telemetry, Relational Databases, Database Management Systems, Data Pipelines and Observability, Cloud Application Development, Software Engineering Methodologies, Machine Learning Algorithms, MLOps, CI/CD, REST APIs, Backend Web Development, and Solution Engineering.

Programming Languages, Tools, and Software

Python, R, C, C++, C#, .NET Framework, Java, JavaScript, HTML, CSS, PHP, SQL, MIPS Assembly, Docker, Jira, Trello, MS Excell and VBA, LaTeX, among others.

Industry Knowledge and Soft Skills

Agile Methodologies in a Team Setting, Technical Sales, Client Relations, Public Speaking, Teaching, Mentorship, Problem-Solving, Flexibility, and Adaptability.