

Riley Eaton

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EDUCATION

The University of British Columbia

Sep 2024 – Aug 2026, expected

Master of Science in Computer Science; GPA: 4.20 on 4.33 scale

Kelowna, BC, Canada

- Awarded the *UBC Okanagan Graduate Research Scholarship* in recognition of academic achievement
- Notable Graduate Coursework: Software Engineering, Modelling and Simulation, Computer Vision, Deep Learning, Data Wrangling in Medical Imaging for AI Applications

Trent University

Sep 2019 – Apr 2023

Bachelor of Science Honours in Computer Science; GPA: 3.70 on 4.33 scale

Peterborough, ON, Canada

- Named to the Dean's Honour Roll
- Notable Coursework: Advanced Algorithms, Data Mining, Digital Logic, High-Performance Computing, Human-Computer Interaction, Comparative Programming Languages, Automata Theory, Operating Systems, Computer Crime and Forensics

EXPERIENCE

Graduate Student, Software Engineering and Data Science

Sep 2024 – Present

BC Cancer

Kelowna, BC, Canada

- Conducting research in medical imaging analysis for **early detection of lung and breast cancer**
- Focusing on building pipelines to de-identify patient data to enable future ML model development

Solutions Architect, Data and AI

Jun 2023 – Aug 2024

IBM

Toronto, ON, Canada

- Delivered technical solutions (custom demos, proof of concepts, workshops, minimum viable products) to stakeholders from hands-on teams to C-suite executives
- **Exceeded 2023 quota by over 450%**, achieved top 1% for yearly learning hours, and invited to IBM's Golden Circle 2024
- Promoted to oversee expanded territory (Manitoba, Saskatchewan, Atlantic Canada, and Ontario), and mentor new hires
- Managed IBM's Data Management, Data Fabric (governance, integration, etc.), and generative AI portfolios

Software Engineering Intern, Full-Stack

May 2020 – May 2023

IBM

Toronto, ON, Canada

- Began first full-time internship in summer of 2020 and subsequently **asked to return** for student-on-call positions and **two additional** summer internships
- Worked in an agile development environment to build automation and productivity tools for sales enablement
- Maintained and enhanced existing projects while taking on larger solo projects each term
- Work from 2020 to 2022 culminated in an application that now serves as IBM's learning platform, adopted by **14,000+** sales professionals and **800+ sales executives worldwide**

Undergraduate Grader, Computer Science

Jan 2022 – Apr 2022

Trent University

Peterborough, ON, Canada

- Graded assignments for **200 undergraduate students** in C# programming
- Provided detailed, constructive feedback to help students improve coding practices, and offered individual help upon request

PROJECTS

Avionics System, SRAD Flight Computer | C++, Arduino, ICs, Git

Oct 2024 – Present

- Subteam of the UBC Aerial Robotics and Rocketry Club, convening weekly to plan and solve new problems collaboratively
- Integrating COTS flight computer into student-built high-powered hybrid rocket for telemetry and descent control during **Launch Canada 2025**
- Developing a custom avionics system from the ground-up using integrated circuit components and prototyping platforms

Weather Web Application - SkySage 🌤️ | Python, JavaScript, RestAPIs, MySQL, GCP, Git

Nov 2024 – Dec 2024

- Final project for UBC SWE course to provide current weather and forecast trends using LLMs
- Worked cohesively as a team of four, following agile development principles to complete the project in 6 weeks, resulting in over 80 git branches, 1,050 commits, and 120 source code files totalling **17,000** lines of code
- Achieved a **99% final grade** for the project

Interactive Shell - IntelliShell 🐙 | C, Unix, LLMs, Git

Sep 2024

- A unix shell written in C with all the standard shell features, augmented with generative AI in order to assist the user in learning how to use the commands effectively
- Invalid commands are passed to a large language model (LLM), which summarizes the error message to provides helpful tips
- **3rd place winner** for the UBC AI for Social Good Hackathon

Reinforcement Learning Tutorial 🎮 | Python

Oct 2019

- Developed a Q-learning program for pathfinding in first-year university
- Created a tutorial video to educate others who are learning to implement similar machine learning (ML) algorithms
- Using no ML libraries, the algorithm and underlying equations were **implemented by hand**

PROFICIENCIES

Technical Skills: Avionics, Fault Tolerance, Telemetry, Deep Learning Techniques, Relational Databases, NoSQL Databases (MongoDB), Data Pipelines, Medical Informatics, DICOM Standard, Unix/Linux

Software Engineering: Version Control (Git), Agile, Kanban, Cloud Deployment, Backend, MLOps, CI/CD, REST APIs

Languages: Python, MATLAB, R, C, Arduino, *C#*, Java, JavaScript, HTML, CSS, PHP, SQL, MIPS Assembly, LaTeX

Developer Tools: Docker, GitHub Actions, AWS, IBM Cloud, .NET Framework, Jupyter, Jira, Trello

Soft Skills: Technical Writing, Technical Sales, Client Relations, Public Speaking, Teaching, Mentorship, Adaptability