

# Riley Eaton

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## EDUCATION

### The University of British Columbia

2024 – 2026

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

*British Columbia, 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 for Medical Imaging for AI Applications

### Trent University

2019 – 2023

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

*Ontario, Canada*

- Awarded 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*

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

### Solutions Architect, Data & 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
- **Achieved over 450% of 2023 quota**, recognized in IBM's top 1% for learning achievement and invited to IBM's Golden Circle in 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
- The culmination of work from 2020 to 2022 resulted in an application that serves as IBM's new 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, with individual help on request

## PROJECTS

### Avionics Team, SRAD Flight Computer | C++, Arduino, ICs, Git

Oct 2024 – Present

- Working with the Avionics team for the UBC Aerial Robotics and Rocketry Club
- Integrating pre-built flight computers into high-powered a rocket to control descent mechanisms for **Launch Canada 2025**
- Developing a custom flight computer from the ground-up using integrated circuits 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 forecasted 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
- **3<sup>rd</sup> 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

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

**Software Engineering:** Git Best Practices, 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, Git, GitHub Actions, AWS, IBM Cloud, .NET Framework, Jupyter, Jira, Trello

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