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

Trent University   Sep 2019 – Apr 2023
Bachelor of Science Honours in Computer Science; GPA: 3.70 on 4.33 scale   *Peterborough, ON*
- Named to the Dean's Honour Roll

EXPERIENCE

Graduate Student, Software Developer and Data Scientist   Sep 2024 – Present
BC Cancer   *Kelowna, BC*
- Conducting research in medical imaging analysis for early detection of **lung** and **breast** cancer
- Engineering pipelines to de-identify (pseudonymize) patient data to enable future ML model development

Graduate Student Advisory Council Member   Oct 2024 – Present
The University of British Columbia   *Kelowna, BC*
- Advocating for graduate education and initiatives on campus as the faculty of Science representative to the Dean

Solutions Architect, Data and AI   Jun 2023 – Aug 2024
IBM   *Toronto, ON*
- Developed custom demos, proof of concepts, workshops, and MVPs for clients, presenting to organizations or individual executives. Covered data management, data fabric, and generative AI product portfolios
- Exceeded 2023 quota by **over 450%**, achieved **top 1%** for yearly learning hours, and invited to IBM's Golden Circle 2024
- **Promoted** after 9 months to oversee territory outside of Ontario (MB, SK, NS, NB, NL, and P.E.I.)

Software Developer Intern, Full-Stack   May 2020 – May 2023
IBM   *Markham, ON*
- Collaborated in an Agile development team to build automation and productivity tools for sales enablement
- Began first full-time internship in summer 2020 and subsequently **asked to return** for student-on-call positions and **two additional** summer internships, working with larger teams each term
- Work from 2020 to 2022 culminated in an application that now serves as IBM's learning platform, adopted by over **14,000** sales professionals and **800** executives worldwide

Undergraduate Grader, Computer Science   Jan 2022 – Apr 2022
Trent University   *Peterborough, ON*
- 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
- Developing a custom avionics system for telemetry and descent control of high-power rocket during **Launch Canada 2025**

Weather Web Application - SkySage ⓞ | *Python, JavaScript, RestAPIs, MySQL, GCP, Git*   Nov 2024 – Dec 2024
- Final project for UBC's Software Engineering course: provides current weather and forecasts trends using LLMs
- Worked cohesively as a team of four, implementing Agile practices to develop the project in six weeks, producing over 80 Git branches, 1,050 commits, and 120 source code files totaling **17,000** lines of code. The project earned a final grade of **99%**

Interactive Shell - IntelliShell ⓞ | *C, Unix, LLMs, Git*   Sep 2024
- A Unix shell written in C with all standard features, augmented with generative AI to help users learn the command line linterface. Invalid commands are processed by a large language model, which summarizes errors and suggests fixes.
- **Won 3rd place** at UBC's AI for Social Good Hackathon

Reinforcement Learning Tutorial ▶ | *Python*   Oct 2019
- Developed a Q-learning program for pathfinding in first-year university, along with a tutorial video to educate others
- Used no ML libraries: the algorithm and underlying equations were implemented **manually**

PROFICIENCIES

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

Software Engineering: Version Control (Git), Agile, Kanban, TDD, 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, Markdown

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