

# Alex Yeung

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## EDUCATION

**University of British Columbia**  
*Bachelor of Science in Computer Science*

Vancouver, BC  
*Expected Graduation: 2026*

## TECHNICAL SKILLS

**Programming Languages / Tools:** Python, Java, JavaScript, HTML/CSS, SQL, TypeScript, C++, React, Vue.js, Node.js, Express.js, SSMS, Cypher QL, MongoDB, Google Firebase, Docker, GitHub, AWS

**Coursework:** Data Structures & Algorithms; Computer Systems and I/O architectures; Software Engineering

## EXPERIENCE

**Motorola Solutions • Firmware Validation Engineer Intern • Vancouver, BC** Sep 2024 - Present

- Developed, tested, and debugged software, video graphics, and hardware for security systems in **Linux** using **Python, C++, Selenium, and Azure Pipelines** on the **Video Security and Analytics** Team

**Angel Host • Software Engineer Intern • Remote** Jun 2023 - Present

- Collaborated with cross-functional teams, utilizing **Jira** under the **Scrum** framework, to implement features across multiple company websites with **4000+ properties**, using **React, TypeScript, Node.js, Express.js, and SQL**
- Automated a property onboarding system that transfers listing data across multiple property management platforms using **Python, REST APIs, JavaScript, and SQL**, accelerating the previous manual process **by over 5x for 600+ new listings** and for all future listings
- Developed a prompt generation software that generates copywriting information for listings, reducing copywriting time **from 3 hours to 20 minutes per listing**, using **Python, SQL, and ChatGPT's API**

**Provincial Health Services Authority • Software Developer Intern • Vancouver, BC** May 2024 - Aug 2024

- Developed provincial health dashboards that processed **millions of health records** using **SQL, Oracle SQL developer, and SAP BI Launch Pad**, streamlining decisions for provincial health initiatives
- Engineered a new automated system that extracts **thousands of SAP reports** and filters out SQL and metadata for use in report development and validation, reducing manual errors and accelerating the development process **by 90%**, using **Python, Java, AWS, and REST APIs**, guided by **TDD** principles
- Developed a **Tuberculosis progression ML model** for the Provincial Health Systems Department, to present how AI models can be integrated into Provincial Health to **100+ developers and clinicians**, using **Python, SQL, Random Forest models**, and **hyperparameter tuning** to optimize performance

**Amazon Web Services • AWS DeepRacer Student Finalist • Vancouver, BC** Jan 2022 - Apr 2022

- DeepRacer allows college students to use **machine learning to train RL car models** in simulated race track environments and race others **around the globe** in virtual competitions
- Engineered optimal reward functions to achieve the fastest race times for a variety of tracks using **Python and reinforcement learning**, reducing total race times from **10+ minutes to 2.5 minutes**
- Ranked **8th internationally out of 2000+ competitors** by the end of April's competition and was awarded a physical model of the DeepRacer car

## PROJECTS

**TechHorizons | Vue.js, Node.js, Express.js, Axios, MongoDB, Google Firebase, Render | [GitHub](#) | [See Live](#)**

- An e-commerce platform with responsive product browsing that allows users to log into their accounts securely, look up product details, add items to their own carts, and save their information in a database

**JPMorgan • Software Engineering Virtual Program | Python, TypeScript, React | [Certificate](#)**

- Engineered a live graph on a web application that monitors stock trends and produces an alert on deviations beyond 10% from the 12-month average, **helping traders develop trading strategies more efficiently**