

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 • Incoming Firmware Validation Engineer Intern • Vancouver, BC *September 2024*

- Assigned to the Video Security & Analytics Team, focusing on **Python** and **C++** development

Angel Host • Software Engineer Intern • Remote *June 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 - Present*

- 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 *January 2022 - April 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
- Developed backend with **Node.js** and **Express.js** for RESTful API interactions, **MongoDB** for storing user and cart profiles, **Google Firebase** for authentication, and deployed on **Render**, adhering to **CI/CD** practices

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**