

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, Node.js, Express.js, PostgreSQL, SSMS, Cypher QL, Neo4j, Docker, GitHub, Azure, NumPy, Pandas

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

EXPERIENCE

Angel Host • *Software Engineering Intern* • Vancouver, BC

June 2023 - Present

- Optimized operations and developed new features across multiple company websites and databases **with 1000+ properties** using **React, TypeScript, Node.js, Express.js, and MySQL**
- Automated a property onboarding process that transfers listing information across multiple property management platforms using **Python, REST APIs, JavaScript, and SQL**, accelerating the previous manual process **by over 5x for 300+ 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**

Ioto International • *Software Engineering Intern* • Vancouver, BC

June 2023 - September 2023

- Implemented collision handling algorithms and optimized fetch and load database operations, which greatly reduced bulk-loading errors and optimized database transactions, using **Python, NumPy, Pandas, Cypher QL, Docker, and AWS services via Boto3**
- Developed federal web scrapers to **asynchronously extract** data from **330+** Canadian MPs for analysis, reducing memory overhead and execution times using **Asyncio, Aiohttp, and Playwright**

PROJECTS

Educational Planner

- Develop a UI-based application using **Java and Java Swing** that allows students to keep track of their overall averages in their courses using the grades they input from each of the course's assignments
- Implemented save and load functionality so users can keep revisiting the application to update their marks and utilized **JUnit** tests to ensure robust handling of various average calculation scenarios

TechHorizons - Fullstack E-Commerce Store

- Developed a full-stack e-commerce store using **Vue and Node.js** that allows users to log in to their accounts, choose items to purchase, and add them to their carts
- Utilized **MongoDB** to store user items, allowing users to revisit the store and update their carts from a previous session and **Google Firebase** for user authentication

AWS DeepRacer Student Finalist

- 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
- Developed optimal reward functions to achieve the fastest race times for a variety of tracks using **Python and reinforcement learning**
- Ranked **8th internationally out of 2000+ competitors** by the end of April's competition and was awarded a physical model of the DeepRacer car