Alex Yeung

Richmond, BC • 778-512-9913 • alex.ly.yeung@gmail.com • github.com/alyoawesome
www.linkedin.com/in/alexlyeung • alexyeung.netlify.app/

EDUCATION

University of British Columbia Vancouver, BC
Bachelor of Science in Computer Science *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

- Developed 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

Face Detection Website

- Developed a web-based project that allows users to upload an image URL and send the image to be processed by the backend, which detects and draws borders around faces in the image using a **REST API**

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