

# 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, Azure

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

## EXPERIENCE

**Fraser Health Authority • Systems Analyst Intern • Surrey, BC** *September 2023 - Present*

- Engineered a new automated system that extracts **thousands of patient records** from medical reports weekly and developed automated data integrity checks on the records, reducing manual errors and accelerating the validation process **by 85%**, using **SQL and Python** with **SSMS** and **Jupyter Notebook**
- Developed a Python-based validation, reporting, and data transfer process for an education software used to train medical students across **12 provincial hospitals**, saving **hours of manual work weekly**

**Angel Host • Software Engineering Intern • Vancouver, BC** *June 2023 - Present*

- Optimized operations and developed new features across multiple property management 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*

- Optimized fetch and load database operations, which greatly reduced bulk-loading errors and optimized database transactions, using **Python, 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**

**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 on Forage |** *Python, TypeScript, React*

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