

Austin Luk

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EDUCATION

University Of British Columbia

Graduating May 2027

Bachelor of Science in Computer Science

Relevant Coursework: Data Structures and Algorithms (CPSC 221), Software Construction (CPSC 210), Database Systems (CPSC 304), Introduction to Data Science (DSCI 100), Introduction to Artificial Intelligence (CPSC 322)

Langara College

Sept 2023 – April 2025

Associate of Science Computer Science

Activities and societies: Vice-President of Langara Volleyball Club, Langara Computer Science Club (LCC)

EXPERIENCE

Code Ninjas

March 2025 - Current

Instructor

Vancouver, BC

- Developed logical skillset and programming knowledge of children using Scratch, JavaScript, Lua, and C#/Unity.
- Taught over 50 - 100 students coding fundamentals, guiding them using Socratic questioning
- Managed high-volume classroom environments, rapidly diagnosing and resolving technical issues under time pressure.

Headstarter AI

July 2024 – Sept 2024

Software Engineer Fellow

Vancouver, BC

- Designed, deployed, and monitored full-stack cloud applications using Next.js, OpenAI APIs, and managed databases.
- Led and deployed full-stack projects using MVC design patterns through mentoring and feedback from industry leaders. (ex. Google, Meta, Facebook)

PROJECTS

[TaPRO](#) | Gemini API, Next.js, Node.js, Supabase

- Built an AI-powered virtual teaching assistant platform to support university office hours for students and professors.
- Designed data pipelines to store assignments, course materials, and interaction summaries in Supabase for fast retrieval and reuse.
- Implemented optimized retrieval pipelines to reduce API payload size and improve response latency by 40%.

[HeyFreddy](#) | Next.js, Node.js, Supabase

- Built an AI-driven client-freelancer matchmaking assistant to connect businesses with top talent.
- Integrated Gemini API for natural language understanding to analyze client requirements and generate optimized matches.
- Used Supabase for real-time database management, enabling scalable user data storage and retrieval.

[ThenStep](#) | Next.js, Bun, OpenStreetMap, Google Maps API, Puppeteer

- Developed an advanced map application that allows users to search for both normal driving and walking routes, as well as scenic alternatives.
- The app uses natural language processing to interpret search queries, offering various route options based on user preferences.
- Leveraged Puppeteer for web scraping to gather data on safety reports, local meetups, and community events.
- Integrated OpenStreetMap and Google Maps API for dynamic and interactive mapping.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, C++, SQL, HTML, CSS,

Frameworks & Libraries: React, Node, Express, REST APIs, Git, MySQL, MS SQL, MongoDB

DevOps: Docker, Kubernetes, **Amazon Web Services (AWS)**, Azure, CI/CD

Certifications: **AWS Certified Cloud Practitioner** (In Progress – Expected May 20)