

Maggie Gu

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Education

University of British Columbia

May 2025

Bachelor of Applied Science in Computer Engineering

Vancouver, BC

- Captain @ UBC Biomedical Engineering Student Team, Residence Advisor, Undergraduate Research Assistant

Experience

Cohere

March 2025 – June 2025

Senior Data Quality Specialist

Remote

- Annotated and structured code in various programming languages to support training of large language models for code generation and understanding
- Conducted peer reviews of annotated code to ensure quality control and adherence to annotation standards
- Labeled and categorized code examples by difficulty, domain, and functionality for machine learning dataset curation

Amazon

June 2024 – August 2024

Software Development Engineer Intern

Vancouver, BC

- Developed & migrated AWS CloudMap Service Discovery to open-source framework using Java and Ruby
- Wrote contract and integration tests to validate new implementation's integration to AWS CloudFormation
- Migration eliminated cost associated with database storage for team and improved customer experience by offering drift detection and access to AWS Cloud Control API and other CloudFormation features

UBC Software Analysis and Testing Research Lab

May 2024 – June 2024

Research Assistant

Vancouver, BC

- Developed LLM-agent for generating code patches based on contextual analysis using Python
- Built extensions on OpenDevin used to test agent in comparison to other benchmarks

Broadsight Tracker

March 2023 – June 2024

Full-Stack Developer

Remote

- Implemented a new feature using React, resulting in 35% increase in new user interest within the first month
- Authored 20+ unit tests using Jest leading to a 10% reduction in average weekly reported issues
- Spearheaded OWASP security assessments across the infrastructure with focus on code injection attacks

OVCARE

April 2023 – August 2023

Data Engineer

Vancouver, BC

- Designed data pipeline using R, Python, and SQL currently being **used across 5 research labs**
- Developed graph algorithms to implement database schemas to detect and model trends with 84% accuracy
- Automated recurring data retrieval with Python scripts, eliminating the need for costly third-party API calls

Tesla

February 2022 – August 2022

Project Management Intern

Fremont, CA

- Managed multiple infrastructure improvement projects, valued up to \$4.3 million, for Models 3 & Y
- Developed a Python script to organize photos based on metadata, reducing man-hours spent sorting by 70%
- Led assessment study to determine viable solutions for time-logging issue including wire-frame developments

UBC Department of Civil Engineering

November 2021 - April 2022

Undergraduate Research Assistant

Vancouver, BC

- Developed Python program to model environmental impact through infrastructures' lifetime
- Optimized simulation processing performance and data validation in computations by 20% by implementing bandpass metrics and leveraging caching through dynamic calculation and array vectorization

Vancouver General Hospital

October 2020 – March 2021

Software Engineer

Vancouver, BC

- Contributed 10K+ lines of code in React to patient flow tracker app for Radiology Department

Technical Skills

Languages: Python, Java, C++, R, SQL, JavaScript

Machine Learning & Data Science: PyTorch, TensorFlow, Hugging Face, OpenCV, scikit-learn, pandas, NumPy, testthat

Frameworks & Infrastructure: FastAPI, Flask, Django, React, Next.js, Express.js, Docker, AWS, MySQL, MongoDB, Redis