

# Maggie Gu

✉ [maggieguubc@gmail.com](mailto:maggieguubc@gmail.com)

🌐 [linkedin/maggieh-gu](https://www.linkedin.com/in/maggieh-gu)

🐙 [mgu83.github.io](https://github.com/mgu83)

## 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

**Libraries:** 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