

Skills

Languages Python, Go, JavaScript, Java, C, C++, Ruby, C#, HTML/CSS, SQL
Technologies React, Node.js, Express, Flask, NestJS, Ruby on Rails, AWS, Azure, Terraform, Docker

Experience

Meta **August 2024 - Present**
Software Engineer New York, NY, United States

- Enabling ML engineers to build and train the LLaMA series of models by designing and optimizing infrastructure for the efficient sourcing, ingestion, and management of large-scale, multi-modal datasets.

Wealthsimple **May 2024 – August 2024**
Software Engineer Intern Toronto, ON, Canada

- Joining the DIY Core team; building a resilient, reliable platform for individual investors to trade stocks, options, ETFs, and other securities in a safe and simple manner.

Snowflake **May 2023 – August 2023**
Software Engineer Intern San Mateo, CA, United States

- Developed a flexible diff library for JSON files, with custom equality definitions for specified properties and transformation of values to allow for normalization and comparison of nonstandard data types.
- Propagated approvals of Terraform plans across deployments by comparing and matching pending changes to previously applied ones, reducing weekly manual review time from 3 hours to < 5 minutes.

Amazon Web Services (AWS) **January 2023 – April 2023**
Software Development Engineer Intern Vancouver, BC, Canada

- Created an open source templating solution to simplify the authoring, packaging, and deployment of GraphQL APIs through resolver code generation and abstracted permissions management.
- Developed a generic template validation algorithm that compared user templates against AWS resource schemas, eliminating 80% of common user errors from template deployment.

Amazon Web Services (AWS) **May 2022 - August 2022**
Software Development Engineer Intern Vancouver, BC, Canada

- Developed new AWS service to connect resources with automated policy creation from permissions presets.
- Created a drift detection API in Java and Python to identify and restore misconfigured service permissions in complex service architectures to healthy working states in < 1s.

ApplyBoard **September 2021 - December 2021**
Software Engineer Intern Waterloo, ON, Canada

- Spearheaded production of an internal data import service to convert Excel documents with customer information into user profiles, reducing account creation times by 85%.
- Refactored old React modules in Typescript with modern practices (functional components, hooks), resulting in 50% faster load times and improved readability.

Projects

Clouseau | Python, Flask, SQLite

- Created a GitLab contribution tracker in Flask that generated analytics dashboards for commit history, code reviews, and merge requests to identify equal work completion in group assignments.

GPX Parser | C, JavaScript, Node.js, Express

- Created a GPX parsing library in C for developers to search, filter, and calculate optimized travel routes using depth-first search and the Haversine formula.

Education

University of Guelph **September 2019 - May 2024**
Bachelor of Computing, Computer Science (Co-op) Guelph, ON, Canada