

Minh Tran

450-331-1489 | minh@minhtrannhat.com | [linkedin.com/in/minh-tran-nhat](https://www.linkedin.com/in/minh-tran-nhat) | minhtrannhat.com | git.minhtrannhat.com/explore/repos

EDUCATION

Concordia University

Bachelor of Engineering in Computer Engineering.

Montreal, QC, Canada

September 2019 – December 2025 (expected)

EXPERIENCE

Software Engineer Intern

Amazon Canada

May 2025 – August 2025

Toronto, Ontario, Canada

- Spearheaded an intelligent test automation platform using **LLM + RAG + MCP** to auto-retrieve setup docs and execute mobile test orders for the Amazon Flex app, cutting setup time from 5 min to 30 sec (10x) to be scaled to 250+ daily users across cross-functional engineering and QA teams daily.
- Developed a **Java AWS Lambda** that exposes an **MCP** server to 140+ org-wide **APIs**, using **Java** reflection for dynamic class/method resolution and Gson for JSON serialization of test orders.
- Designed and deployed a multi-AZ Knowledge Base platform with **AWS CDK: OpenSearch Serverless** (vector index), **S3** (document storage), and **Bedrock** ingestion Lambda (vectorization), creating a scalable backbone for RAG workloads.
- Built a secure **TypeScript/React** app for document upload (**AWS S3 SDK**) and real-time chat (**AWS Bedrock SDK**) with streaming responses, reducing time-to-first-token by 86% (30s → 4s).

Software Engineer Intern

Cisco Canada

January 2023 – May 2023

Remote

- Developed a multi-threaded **Python microservice** for a Cisco internal SaaS ingesting usage telemetry data of Cisco Cat9kv switches from thousands of GNS3 networking projects to be stored in **ElasticSearch**.
- Containerized and integrated **ElasticSearch** and **Kibana** into existing microservices system.
- Created insightful **Kibana** charts highlighting Cat9kv switch flavors daily usage and number of daily users, chosen among Canadian interns to present to Cisco Enterprise Networking Group executives.
- Wrote custom **Ansible** modules to synchronize folders across Cisco managed servers while ensuring 100% folder structure and files integrity with hashing algorithm utilizing **Python** SHA1 cryptographic library.
- Automated custom **Ansible** modules testing with **Bash** scripts. Testing environment made with **Vagrant** and **Docker** to simulate production servers.

PROJECTS

Todo API | *Python, Quart, Pydantic, PostgreSQL*

Sept 2022

- Developed a **RESTful API** for CRUD operations of user accounts and todo items with Quart web framework.
- Implemented authentication with Cookies.
- Applied concepts like rate-limiting, password-length checking, expired tokens checking with libraries such as quart-rate-limiter, zxcvbn, freezegun.
- Containerized with **Docker** and **Docker-Compose** for easy deployment and testing. Improved test coverage for API using **Pytest**.
- Adopted **Github Actions** for continuous integration. Code is linted, formatted and tested.

TECHNICAL SKILLS

Languages: Python, Java, Javascript, Typescript, SQL, Rust, HTML, CSS

Frameworks: Flask, Node.js, FastAPI, Django, Express, Next.js

Tools: Git, Docker, Ansible, Kibana, Vagrant, Bash, IntelliJ, Emacs, Vim, Postman, Insomnia, LaTeX, VS Code

Cloud Technologies: AWS S3, AWS Lambda, AWS OpenSearch Serverless, AWS DynamoDB, AWS Bedrock, AWS CDK

Databases: PostgreSQL, MySQL, MongoDB, ElasticSearch, etcd, Firestore