

KHOI NGUYEN

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EDUCATION

University of Toronto

September 2021 - April 2026

B.Sc. in Computer Science & Mathematics

Overall GPA: 3.58/4.00

- **Relevant Courses:** Software Design, Data Structures and Algorithms, Operating Systems, Parallel Programming, Introduction to Information Security, Scalable Computing, Computer Architecture

SKILLS

Computer Languages

Frameworks and Technologies

Tools

Professional Skills

Languages

Golang, Ruby, Python, SQL, Javascript/TypeScript, Java, C/C++, Shell, Bash
Springboot, Express.js/Node.js, FastAPI, React, Flask, MySQL, PostgreSQL, SQLite,
Docker, CUDA, Redis, AWS(S3, IoT Core, EC2, RDS, MSK),
git, perforce, jenkins, gdb, valgrind, gcc, Agile methodologies
Adaptability, Problem solving, Team Player, Accountable, Reliable, Self-starter,
English, Vietnamese

WORK EXPERIENCE

Hardware Verification Infrastructure Intern

May 2024 - August 2025

Advanced Micro Devices (AMD)

Markham, ON

- Improved 200% performance on LSF Monitor using **Go**, **Svelte/Sveltekit**, and **Ruby** for managing jobs running on IBM Spectrum LSF used by 70+ team members.
- Designed, implemented, and published the 'Matrix' event-driven "AI" automation framework with a team of 10 people in **Go**, and **SQLite3** to automate communication and action for debug for potentially 100+ people teams.
- Proposed and built an MVP of an internal Jira Bug Tracker using **Python/FastAPI** backend and **React** frontend.

Software Developer (Intern)

June 2022 - August 2022

Nexle Corporation

Ho Chi Minh City, Vietnam

- Programmed the front-end of a content management system for the client using **React** and **Redux**
- Designed and built the back-end, and APIs of a fitness app using **Node.js**, and **MySQL** maximizing efficiency and ease-of-use for front-end developers.
- Debugged 20+ old bugs on existing projects on both **React** front-end and **Express.js** back-end, tested new code for bugs reducing the chance of application breaking bugs.

Software Developer

July 2023 - June 2024

XtayPro Canada

Toronto, ON

- Designed and deployed the XTayPro Canada website using **Next.js** and **Tailwind CSS** for app with 150+ users.
- Supported a 10-person team by setting up GitHub, Trello, and cloud hosting

PROJECTS

DynamoHub

May 2025 - August 2025

- Lead a team of 8 students to develop an AI traffic management website for *UrbanDynamo*
- Designed a real time system from data ingestion through sensors and Jetson Nano through to **AWS** and **Flask** backend
- Built and tested the MVP of the edge compute unit (**Python**, **Docker**) with data ingestion through to AWS IoT Core
- Fixed frontend bugs for DynamoHub built using **React**, **Tanstack Query**, and **Tailwind**
- Connected **Flask**, **SocketIO**, **AWS MSK (Kafka)**, and **PostgreSQL** backend for realtime updates