

KHOI NGUYEN

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EDUCATION

University of Toronto

September 2021 - April 2026

B.Sc. in Computer Science & Mathematics

- **Relevant Courses:** Software Design, Data Structures and Analysis, Operating Systems, Parallel Programming, Embedded Software, Introduction to Information Security, Software Tools and Systems Programming

SKILLS

Computer Languages

Golang, Ruby, Python, SQL, Javascript/TypeScript, Java, C/C++, Shell, Bash

Frameworks and Technologies

Go-Chi, Express.js, Node.js, MySQL, PostgreSQL, SQLite3, Linux/Unix, CUDA

Tools

Vim/Neovim ♡, tmux, gcc, gdb, valgrind, git, github, perforce, jenkins

Professional Skills

Adaptability, Problem-solving, Team Player, Accountable, Reliable, Self-starter

Languages

English, Vietnamese

WORK EXPERIENCE

Hardware Verification Intern

May 2024 - Present

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 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 organization chart and adding roles and permissions for the team's workflows implementing **OpenID Connect** and leveraging **LDAP** protocol using **Go**.

Software Developer

July 2023 - June 2024

XTayPro Canada

Toronto, ON

- Designed and programmed the XTayPro Canada website using **Next.js** and **Tailwind CSS** for app with 150+ users.
- Assisted in setting up XTayPro's Github, Trello, and hosting on Digital Ocean and technological team in Canada for a team of 10 people.
- Researched and advised on improvements for the company's website.

Tech Champion

April 2022 - May 2023

SEED Immigration

Toronto, ON

- Automated the process of preparing scanned documents by developing a **Vue.js** and **Flask** web application by using PDFjs module.
- Observed multiple processes in the company, and presented ideas to the board of directors about technological improvements

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 15+ 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.