

# KHOI NGUYEN

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## EDUCATION

### University of Toronto

September 2021 - April 2026

B.Sc. in Computer Science & Mathematics

Overall GPA: 3.56/4.00

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

## SKILLS

### Computer Languages

Golang, Ruby, Java, SQL, C/C++, Javascript/TypeScript, Python, 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 on LSF Monitor using **Go**, **Svelte/Sveltekit**, and **Ruby** for managing jobs running on IBM Spectrum LSF.
- Designed and implemented the 'Matrix' automation framework in **Go**, and **SQLite3** to speed up work and allow for running tests through chat or email.
- Proposed and built an organization chart and adding roles and permissions for the team's workflows using **Go**
- Assisted in running, managing, and improving regression built using **Ruby** and running through **Jenkins**

### Software Developer

July 2023 - June 2024

*XTayPro Canada*

*Toronto, ON*

- Designed and programmed the front-end of the XTayPro Canada website using **Next.js** and **Tailwind CSS**.
- Assisted in setting up XTayPro's Github, Trello, and hosting on Digital Ocean and technological team in Canada.
- 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 old bugs on existing projects on both front-end and back-end, tested new code for bugs reducing the chance of application breaking bugs.