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 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, FastAPI, MySQL, PostgreSQL, SQLite3, Unix, CUDA
Tools	git, perforce, jenkins, docker, gdb, valgrind, gcc, Agile methodologies
Professional Skills	Adaptability, Problem-solving, Team Player, Accountable, Reliable, Self-starter
Languages	English, Vietnamese

WORK EXPERIENCE

Hardware Verification 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 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 Tracking Service using **Python/FastAPI** backend and **React** frontend.

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 Immmigration   *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.