

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

Express.js/Node.js, FastAPI, React, Flask, MySQL, PostgreSQL, SQLite, Docker, CUDA, Redis, AWS(S3, IoT Core, EC2, RDS, MSK),

Tools

git, perforce, jenkins, 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 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 a 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



[Need Help?](#)



[Mai Nguyen Khoi Nguyen](#) ▼



Complete Academic History

Mai Nguyen Khoi Nguyen

Accurate as of: Sep 27, 2025

This is not an official transcript.

Registration History

2021 Fall-2026 Winter: University of Toronto Mississauga

University of Toronto Mississauga

2023 Winter - Dean's List Scholar 2024 Winter - Dean's List Scholar

2025 Summer - Dean's List Scholar

2021 Fall - First Year Studies in Computer Sc. Math.& Stats

Sessional GPA 4.00 Cumulative GPA 4.00

Crs Code	Title	Wgt	Mrk	Grd	CrsAvg
CSC108H5	Introduction to Computer Programming	0.50	100	A+	C+
ISP010H5	Basics of Writing in English (BoWiE)	0.00		CR	*
LIN204H5	English Grammar I	0.50	91	A+	B
MAT102H5	Introduction to Mathematical Proofs	0.50	88	A	C+
MAT137Y5	Calculus	1.00		IPR	

Credits Earned: 1.50

2022 Winter - First Year Studies in Computer Science & Math.

[Need Help?](#)[Mai Nguyen Khoi Nguyen](#)**Sessional GPA 3.52 Annual GPA 3.68 Cumulative GPA 3.68****Status: In good standing**

Crs Code	Title	Wgt	Mrk	Grd	CrsAvg
CSC148H5	Introduction to Computer Science	0.50	88	A	C+
ISP100H5	Writing for University and Beyond	0.50	80	A-	B+
MAT137Y5	Calculus	1.00	73	B	C
MAT240H5	Algebra I	0.50	80	A-	C+
PHL245H5	Modern Symbolic Logic	0.50	81	A-	*

Credits Earned: 3.00

2022 Fall - Bachelor's Degree Program

Sessional GPA 3.60 Cumulative GPA 3.65

Crs Code	Title	Wgt	Mrk	Grd	CrsAvg
CSC207H5	Software Design	0.50	86	A	B
CSC236H5	Introduction to the Theory of Computation	0.50	87	A	B-
MAT232H5	Calculus of Several Variables	0.50	70	B-	C+
STA256H5	Probability and Statistics I	0.50	83	A-	C-

Credits Earned: 2.00

2023 Winter - Bachelor's Degree Program

Sessional GPA 3.90 Annual GPA 3.73 Cumulative GPA 3.70**Status: In good standing**

Crs Code	Title	Wgt	Mrk	Grd	CrsAvg
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☰	CSC209H5	Software Tools and Systems Programming	0.50	93	A+	*
	CSC258H1	Computer Organization	0.50	86	A	B+
	CSC263H5	Data Structures and Analysis	0.50	80	A-	C+
	EC0101H1	Principles of Microeconomics	0.50		CR	C+
	GGR252H5	Retail Geography	0.50		CR	C+

Credits Earned: 2.50

2023 Summer - Bachelor's Degree Program

Sessional GPA 3.70 Cumulative GPA 3.70

Status: In good standing

Crs Code	Title	Wgt	Mrk	Grd	CrsAvg
MAT301H5	Groups and Symmetries	0.50	82	A-	*

Credits Earned: 0.50

2023 Fall - Bachelor's Degree Program

Sessional GPA 3.40 Cumulative GPA 3.63

Crs Code	Title	Wgt	Mrk	Grd	CrsAvg
CSC347H5	Introduction to Information Security	0.50	90	A+	B+
CSC367H5	Parallel Programming	0.50	75	B	B+
CSC369H5	Operating Systems	0.50	87	A	B
CSC373H5	Algorithm Design and Analysis	0.50	65	C	C+
MAT302H5	Introduction to Algebraic Cryptography	0.50	92	A+	B+


Credits Earned: 2.50

2024 Winter - Bachelor's Degree Program

Sessional GPA 3.26 Annual GPA 3.33 Cumulative GPA 3.56

Status: In good standing

Crs Code	Title	Wgt	Mrk	Grd	CrsAvg
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☰	CSC309H5	Programming on the Web	Need Help?		0.50	85	A	C+	▼
	CSC311H1	Intro Machine Learning			0.50	73	B	B+	
	CSC324H1	Prog Languages			0.50	80	A-	B-	
	CSC343H5	Introduction to Databases			0.50	77	B+	B-	
	CSC363H5	Computational Complexity and Computability			0.50	69	C+	C+	

Credits Earned: 2.50

2024 Summer - Bachelor's Degree Program

Crs Code	Title	Wgt	Mrk	Grd	CrsAvg
PEY400Y1	Professional Experience Year Co-op	0.00		IPR	

Credits Earned: 0.00

2024 Fall - Bachelor's Degree Program

Crs Code	Title	Wgt	Mrk	Grd	CrsAvg
PEY400Y1	Professional Experience Year Co-op	0.00		IPR	

Credits Earned: 0.00

2025 Winter - Bachelor's Degree Program


Crs Code	Title	Wgt	Mrk	Grd	CrsAvg
PEY400Y1	Professional Experience Year Co-op	0.00		IPR	

Credits Earned: 0.00

2025 Summer - Bachelor's Degree Program

Sessional GPA 4.00 Cumulative GPA 3.58

Status: In good standing

Crs Code	Title	Need Help?		Wgt	Mrk	Grd	CrsAvg
				Mai Nguyen	Khoi Nguyen		
CSC301H1	Intro to Soft Eng			0.50	91	A+	A-
CSC385H1	Microprocessor Systems			0.50		CR	B
PEY400Y1	Professional Experience Year Co-op			0.00		IPR	

Credits Earned: 1.00

2025 Fall - Bachelor's Degree Program

Crs Code	Title	Wgt	Mrk	Grd	CrsAvg
CSC368H1	Computer Architecture	0.50		IPR	
CSC409H5	Scalable Computing	0.50		IPR	
CSC443H1	Database Sys Techn	0.50		IPR	
CSC485H1	Comp Linguistics	0.50		IPR	
LIN200H1	Intro Language	0.50		IPR	

Credits Earned: 0.00

2026 Winter - Bachelor's Degree Program

Crs Code	Title	Wgt	Mrk	Grd	CrsAvg
CSC358H5	Principles of Computer Networks	0.50		IPR	
CSC469H1	Oper Sys Design	0.50		IPR	
CSC488H1	Compilers & Interpreters	0.50		IPR	
CSCD70H3	Compiler Optimization	0.50		IPR	
MAT202H5	Introduction to Discrete Mathematics	0.50		IPR	

Credits Earned: 0.00

This is not an official transcript.