

# Thang Tran

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## EDUCATION

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### University of Windsor

*Bachelor of Science Honours Computer Science*

Windsor, ON

2021 – Expected 2025

**GPA: 3.9 - Dean's Honour List**

Courses: Database Management, Operating System, Data Structure and Algorithm, Object-Oriented Programming

## TECHNICAL SKILLS

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**Languages:** Python, C, C++, Swift, JavaScript, TypeScript, HTML, CSS, SQL, Go (Golang)

**Libraries/Frameworks:** React.js, Next.js, Flask, Node.js, Express.js, Tailwind CSS, RxSwift, RxCocoa

**Databases/Cloud:** MySQL, PostgreSQL, SQL Server, MongoDB, Vercel, Google Cloud, AWS, Docker, Git

## EXPERIENCE

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### Ericsson

*5G System Developer Intern*

September 2023 – Present

Ottawa, ON

- Engineered and refined a reinforcement learning algorithm simulation in Python; integrated it into 5G base station software using C/C++, increasing cell throughput by 75% and resolving degradation issues in 600+ cells
- Collaborated with cross-functional teams on rigorous manual testing using 5G lab equipment, identifying and preventing over 20 severe edge cases and significantly enhancing algorithm robustness and reliability
- Optimized data preprocessing for 100+ machine learning projects by integrating feature scaling (Minmax Scaler) into the Neural Network Inference Library, improving accuracy and efficiency of predictions

### Saige

*Full-stack Software Developer Intern (Part-time)*

January 2023 - Present

Remote

- Earned positive feedback from 50+ clients for optimizing payment features with Stripe, React.js, and Material UI; improved security measures in Flask and MySQL, reducing processing time by 25%
- Led the development of a scalable newsletter system with AWS Lambdas, Python, SES, and RDS, dispatching 10,000+ emails annually via CI/CD pipelines, utilizing AWS CodePipeline, CodeBuild, and CodeDeploy
- Enhanced user security by implementing active session limits with AWS Cognito in Flask, reducing unauthorized access incidents and potentially increasing revenue

### University of Windsor

*Teaching Assistant*

September 2022 – September 2023

Toronto, ON

- Facilitated lab sessions and created lesson plans for 25+ students in Object-Oriented Programming (COMP-2120)
- Provided personalized feedback and interactive tutorials during weekly office hours; graded assignments and exams

### HSBC Canada

*Software Engineer Intern*

May 2022 – November 2022

Vancouver, BC

- Developed iOS mobile banking app features with Swift, Objective-C, RxSwift, and RxCocoa frameworks, leading to a significant enhancement in app functionality and user satisfaction
- Worked in an agile team to debug and resolve 50+ defects on Jira, ensuring robust and efficient app performance
- Wrote and updated 40+ unit tests with XCTest, increasing test coverage by 25% across team codebase

### SickKids Hospital

*Full-stack Software Developer Intern*

January 2022 – September 2022

Toronto, ON

- Advanced the Nurturing the Seed (NTS) study by constructing a web application with React.js, Node.js, SQL Server, and Azure, facilitating Developmental Support Plans (DSP) creation for 100+ Indigenous families
- Supported 10 active NTS sites across Canada and provided technical assistance to 150+ practitioners by implementing multiple REST APIs in Node.js, Express.js, and optimizing SQL Server stored procedures

## EXTRACURRICULAR

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### University of Windsor Computer Science Society

*Software Developer*

January 2022 – September 2024

Windsor, ON

- Engineered and administered a robust Discord bot serving UWindsor's 1000+ member community, with 15+ commands and services built by TypeScript, Discord.js, PostgreSQL
- Led the reconstruction of the Computer Science Society's web application utilizing Golang, PostgreSQL, and Docker, significantly improving performance, scalability, and user satisfaction