

# Thang Tran

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## EDUCATION

### University of Windsor

Windsor, ON

*Bachelor of Science Honours Computer Science*

2021 – Expected 2025

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

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

## TECHNICAL SKILLS

**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

### Ericsson

September 2023 – August 2024

*5G Software Developer Intern, Baseband Team*

Ottawa, ON

- Develop and optimize a reinforcement learning algorithm simulation in Python, seamlessly integrate it into 5G base station software using C++, resulting in a 75% increase in cell throughput, resolving degradation in over 600 cells
- Collaborate with cross-functional teams on rigorous manual testing using 5G lab equipments, preventing more than 10 critical edge cases and significantly enhancing algorithm robustness and reliability
- Integrate Minmax Scaler into the internal Neural Network Inference Library, addressing a critical need across over 100 machine learning projects, enhancing data preprocessing efficiency and consistency

### Saige

January 2023 - Present

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

Remote

- Receive positive feedback from 50+ clients for optimizing payment features with Stripe, React.js and Material UI, and strengthening security measures in Flask and MySQL, reducing processing time by 25%
- Lead development of scalable newsletter system with AWS Lambdas, Python, SES, and RDS, sending 10,000+ emails annually with CI/CD pipelines, utilizing AWS CodePipeline, CodeBuild, and CodeDeploy
- Enhance user security by implementing a feature to limit active sessions using AWS Cognito in Flask, reducing unauthorized access incidents and potentially boosting revenue

### University of Windsor

September 2022 – September 2023

*Teaching Assistant*

Toronto, ON

- Planned and facilitated lab sessions for 25+ students in Object-Oriented Programming (COMP-2120)
- Provided feedback and tutorial during weekly office hours, grade assignments, examinations

### HSBC Canada

May 2022 – November 2022

*Software Engineer Intern, Mobile Banking Application Team*

Vancouver, BC

- Developed iOS mobile banking app features with Swift, Objective-C, RxSwift, and RxCocoa frameworks, leading to a significant enhancement in app functionality
- Collaborated as a member of an agile team, debugged and troubleshooted over 50+ defects assigned on Jira
- Wrote and updated 40+ unit tests to increase test coverage by 25% across team codebase using XCTest

### SickKids Hospital

January 2022 – September 2022

*Software Engineer Intern, SickKids Learning Institute*

Toronto, ON

- Contributed to the Nurturing the Seed (NTS) study by developing 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 additional REST APIs in Node.js, Express.js, and optimizing SQL Server stored procedures

## EXTRACURRICULAR

### University of Windsor Computer Science Society

January 2022 – September 2024

*Software Developer*

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, optimizing performance, scalability, and overall user satisfaction