





# Chau Nguyen

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## EDUCATION

### University of Toronto Scarborough

Sep 2021 - August 2025 (Expected)

BSc - Specialist in Computer Science (Software Engineering) and Major in Statistics

Current GPA: 3.95/4.0

**Awards:** Dean's List (2022 - 2024), Joseph Alfred Whealy Scholar (2022), President's Scholar of Excellence (2021), International Scholar Award (2021)

**Campus involvement:** Teaching Assistant (Principles of Programming Languages), International Student Ambassador, Course Representative, Residence Advisor, Makerspace Student Assistant

## SKILLS

**Languages:** C, Python, JavaScript, Typescript, Java, Kotlin

**Tools:** Git/GitHub, Unix Shell, GitHub Actions, Docker, Terraform

**Frameworks:** Node.js, Express.js, React, Bootstrap, Spring, JUnit, Cucumber

## EXPERIENCE

### theScore | QA Automation Engineer, Co-op

Jan 2025 - May 2025

- Automated 70+ new test cases using Selenium and Kotlin for web application
- Investigated and fixed test failures using root cause analysis during maintenance and planning efforts resulting in a 97% pass rate for new releases

### PointClickCare | Software Engineer, Co-op

May 2024 - August 2024

- Integrated usage report into internal Backstage platform with **200% improvement in processing time** and interactive graphical visualization using Microsoft Graph SDK
- Developed a pull request tracking system with on-demand web polling and web socket connection between front-end and back-end supporting multiple source control management systems
- Implemented scheduled back-end jobs that identify missing and incorrect service information and automate sending notifications to **60+ users**, eliminating manual effort to ensure data are updated and complete
- Provisioned tagging support for **10+ resource groups** on Azure cloud using Terraform

### Softchoice | ServiceNow Support Engineer, Co-op

May 2023 - Dec 2023

- Developed, tested, and deployed **20+ enhancements** to ServiceNow platform with HTML, CSS, and JavaScript following standardized ITSM/ITIL processes and Agile methodologies to ensure all client access management requests are actively handled
- Resolved **10+ defects** of ServiceNow platform through investigation, bug fix and testing to maintain functionality of the system and satisfactory user experience
- Deployed a new workspace experience within ServiceNow platform and upgraded the system to latest version to deliver official bug fixes and improve employee efficiency and experience

## PROJECTS

### Momentum | Typescript, Vue.js, tRPC, WebRTC, Redis, MySQL

[source](#)

- Developed a planner web application with real-time video conferencing using WebRTC and natural language command processing using large language model API

### Parallelization of Short-time Fourier Transforms | C++, OpenMPI, MPI

[source](#)

- Implemented a parallel and quasi-parallel algorithms for short-time Fourier transforms and reported on the efficiency of multithreading with OpenMP, multiprocessing with MPI and hybrid

## OPEN-SOURCE CONTRIBUTIONS

### Langchain | C++, OpenMPI, MPI

[source](#)

- Implemented a parallel and quasi-parallel algorithms for short-time Fourier transforms and reported on the efficiency of multithreading with OpenMP, multiprocessing with MPI and hybrid