

Tharuveen Raveendran

tharravi07@gmail.com | (647)-706-9982 | LinkedIn: [Tharuveen Raveendran](#) | GitHub: [raveendran-tharuveen](#)

SKILLS

Languages: Java, Python, TypeScript, C, C++, C#, SQL, Javascript, HTML, CSS, Bash, Verilog, SystemVerilog, Arduino

Frameworks: React, Next.js, Tailwind CSS, FastAPI, React Native, Google Cloud (OAuth, Maps)

Tools: Git/Github, Docker, PostgreSQL/SQLite, Supabase, MQTT, NFC, JUnit, Vercel, JWT Auth

EDUCATION

York University

Toronto, Ontario

Bachelors of Engineering (Honours) in Computer Engineering

Sept 2020 – Apr 2025

Relevant Coursework: Data Structures, Algorithms, Object Oriented Programming, User Interfaces, System Design, Embedded Systems, Computer Organization, Operating Systems

EXPERIENCE

Canadian RoadRunners Inc

Toronto, Ontario

Software Developer

Feb 2024 – Current

- Initiated development of a custom Transportation Management System using [React](#), [FastAPI](#), [PostgreSQL](#), [AWS](#), [WebSockets](#), and [Amazon S3](#), delivering features like [real-time messaging](#), order management, and route optimization
- Applied data analysis to optimize delivery routes/schedules, reducing transit time by **70%**, increasing fleet utilization by **85%**
- Researched and evaluated enterprise software solutions to identify scalable platforms for dispatching, order management, and real-time communication, informing build-vs-buy decisions

Pantheon Prototyping

Toronto, Ontario

Software Developer (Contract)

Sept 2024 - Apr 2025

- Collaborated in a 6-member team to architect and deploy a [full-stack](#) 3D printing material management platform using [FastAPI](#) ([Python](#)), [Next.js](#) ([TypeScript](#)/[React](#)), and [PostgreSQL](#), boosting inventory tracking efficiency by **50%**
- Engineered secure [RESTful APIs](#) with [Google OAuth authentication](#) and integrated [MQTT](#)-based real-time environmental monitoring, enabling proactive control over temperature and humidity to extend material lifespan.

Kumon Canada Inc

Toronto, Ontario

Teaching Assistant

Jan 2018 – June 2025

- Collaborated with a team of tutors to develop personalized problem-solving strategies for over **100** students aged 6–18, improving comprehension in Math and English

PROJECTS

Cov-ID (Best Hardware Hack at yuHacks 2021)

[Github](#)

- Developed a [mobile application](#) that allowed businesses to scan cov-IDs (NFC cards) to quickly and securely verify customers' COVID-19 test results before entry, ensuring safer access
- Built the app using [Java](#) and [XML](#) in Android Studio, integrating [NFC](#)-based secure validation and [Google Maps API](#) for [real-time location](#) tracking and innovative hardware interaction

Portfolio Website

[Github](#)

- Designed and developed a [responsive](#) personal portfolio website using [React](#), [Tailwind CSS](#), and [Vite](#), optimized for both [desktop](#) and [mobile devices](#).

LEADERSHIP

Lassonde Engineering Society

Toronto, Ontario

Finance Committee Member

Sept 2023 – April 2024

- Managed a **\$40,000** budget for the 2023–2024 school year, implementing cost-saving strategies based on financial data analysis
- Cross-functional collaboration to streamline financial processes, improving efficiency and accuracy of budget management