

Tharuveen Raveendran

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SKILLS

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

Frameworks: React, Next.js, Tailwind CSS, FastAPI, Shadcn/ui, 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)

Oct 2024 - Mar 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

Computer Vision Scroller

[Github](#)

- Built a [Python](#) application using [Mediapipe](#), [OpenCV](#), and [Pynput](#) to track finger movements and map gestures to keyboard inputs, enabling users to scroll through web pages by raising their fingers

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