

AVIN LANSON THARAKAN

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EDUCATION

Bachelor of Applied Science, Honors Computer Science,

McMaster University, Hamilton ON,
Graduation Year: 2025

- Achieved a **cumulative GPA of 3.7/4**
- 3x** Placement on the **Deans' Honor List**

Languages: Python, C, C#, Java, JavaScript, SQL, HTML, CSS

Frameworks: Angular, React, Express, ASP.net

Dev Tools: Node.js, MongoDB, Linux, Git, Azure, Jenkins

Courses: Data Structures and Algorithms, Databases, Software Requirements, Concurrency, Machine Learning / AI

WORK EXPERIENCE

Incoming Software Engineer at Shopify

Jan 2025 – April 2025

- I'll be turning product roadmaps into available, scalable, performant, secure, innovative, composable, and cost-effective software for global commerce.

Backend Software Developer at Ericsson:

May 2023 – Sept 2024

- Led backend development for WebApp Tool, designing and deploying **RESTful** APIs from scratch.
- Optimized radio placement scenarios, cutting creation time by up to **80%** through new feature development
- Developed a secure internal authentication testing tool using public/private **key encryption** to handle critical user data, reducing testing time by **35%**.
- Engineered BE automated tests, increasing unit test coverage by **15%**, resulting in a **30%** increase in the discovery of legacy bugs, and ensuring robust verification and proactive troubleshooting development.
- Innovated time-efficient APIs for database processing, enabling targeted data extraction for new features, while swiftly acquiring expertise in the radio systems within an **agile software dev** environment.
- Developed APIs used by lead telecom companies (Rogers, AT&T) ensuring efficient data exchange.

Full Stack Developer at Start-Up Project AMIMA:

May 2022 – June 2022

- Created a website with the team, that combines attributes from social media and customer reviews to improve customer satisfaction with products.
- Utilized **Angular** framework and used HTML/CSS/Typescript to create website.
- Developed/debugged **REST APIs** and gained experience using **MongoDB**
- Collaborated with team members to implement new features using **Jira** to manage **Agile** workflow
- Held weekly stand ups to discuss progress/bugs/improvements to optimize efficiency

PROJECTS

TimeToken | Prize winner at Delta Hackathon IX

Jan 2023

- Developed a study aid application that incentivizes users with uniquely generated NFTs, utilizing a combination of **React**, Tailwind, Django, **SQLite**
- Collaborated with teammates throughout the development process and utilized **third-party API** to mint NFTs onto the Goerli blockchain. <https://devpost.com/software/pomodoronft>

Gamified Stock Simulation WebApp

Aug 2024 - Present

- Developing a React-based dashboard that displays live stock prices and interactive charts.
- Integrating **Jenkins** for **continuous integration** to ensure robust and reliable code deployment.
- Utilizing **Azure SQL Database** for **scalable** and efficient data management.
- Implementing email and Google login, along with features like stock watchlists and trading contests.

EXTRACURRICULAR ACTIVITIES

- McMaster Engineering Student Ambassador:** I assist future students with queries they may have about McMaster by providing them with all the resources they need in a timely and professional manner. Also involved in making supplementary application for future students.
- McMaster Engineering Culture Society:** Leveraged my soft skills to work with my team to manage and organize various events and activities for students to socialize and carry-on McMaster traditions.