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, .NET

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

Courses: Web Development, Databases, Software Requirements, Concurrency, Machine Learning / AI

WORK EXPERIENCE

Incoming Software Engineer Intern at Shopify   **Jan 2025 – April 2025**
- I'll be turning product roadmaps into scalable, secure, innovative, 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 authentication testing tool using **public/private key** encryption and **MS Graph** with Azure AD for role verification, reducing testing time by **35%** while ensuring secure access and system integrity
- Collaborated closely with **cross-functional** teams, including Frontend and Testing, to develop new features, assist with regression testing, and lead bug discovery, fixing, and verification efforts
- 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
- Excelled in acquiring expertise in radio systems while developing time-efficient APIs in an **agile** dev env

Full Stack Developer at Start-Up Project AMIMA: **May 2022 – June 2022**
- Utilized **Angular** and used HTML/CSS/Typescript to create multiple critical **UI** components
- Developed multiple RESTful **APIs** with JavaScript/Express and used **MongoDB** for flexible data exchange
- Collaborated with team members to implement new features using **Jira** to manage an **Agile** workflow
- Held weekly stand ups to discuss progress/bugs/improvements to optimize efficiency
- Developed a website with the team using a user-centric approach by gathering feedback through various methods both pre- and post-launch, and adapting the site to **improve customer satisfaction**

PROJECTS

TimeToken | 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

AI Solar Flare Predictor   **Aug 2024 - Present**
- Developed an SVM classifier to predict solar flare events, optimizing feature sets to maximize model accuracy
- Implemented K-Fold Cross-Validation to ensure robust performance and generalization of the model
- Preprocessed NASA's SDO dataset (600+ samples), including feature normalization, handling missing values, and visualizing results with confusion matrices and TSS scores

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