Madhi Nagarajan

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Education

McMaster University *Hamilton, ON*
Software Engineering (B.Eng) *Sept. 2018 - April 2023*
- **CGPA: 3.4/4.0** | Awards: Dean's Honour List, McMaster Entrance Scholarship
- Relevant Courses: Software Design, Algorithms & Data Structures, Databases, Concurrency, Info Security

Skills

Languages Java, Python, JavaScript, C#, HTML/CSS, SQL, C, Go
Technologies Spring Boot, React.js, Node.js, Express.js, Flask, Git, Bash, MongoDB, .NET Core

Experience

Intact Financial *Toronto, ON*
Backend Developer Intern *May 2021 - April 2022*

Dynasoft Consulting *Mississauga, ON*
Full Stack Engineer Intern *May 2019 - August 2020*
- Developed REST services and client-side webpages for a fleet management web app using **.NET Core**, improving bookkeeping, payroll, and dispatch workflow for **50+** clients
- Optimized database code and queries using **C#** and **SQL** to reduce Azure SQL query time by **30%**
- Built a UI dashboard using **JQuery/Ajax** that monitors transportation and financial data in real-time

FIRST Robotics Team 4308: Absolute Robotics *Mississauga, ON*
Software Mentor *April 2017 - May 2020*
- Coordinated **60+** members to build an industrial-sized robot and compete in international competitions
- Mentored students on **object-oriented design** in Java and robot code management using Git
- Increased team membership by **115%** by raising over **$20,000+** in sponsorships, therefore decreasing the registration fee by 50%

Projects

GitNotes *github/gitnotes*
- Created a note-taking application that seamlessly manages Markdown notes on GitHub repositories
- Integrated with a **Github & Flask API** for GitHub user authentication and repository commits on user notes

Pathify *gitlab/pathify*
- Developed a **React** web-mapping service that enhances route efficiency for delivery drivers
- Built a **Spring Boot API** that implemented sorting, hashing, and graph algorithms to optimize a road dataset with **400,000+ nodes**

Tutorfy *devpost/tutorfy*
- Produced a networking platform that connects students with local tutors on university campuses
- Constructed a **MongoDB & Flask API** that manages user data and recommends relevant tutors to users

Lyrio *github/lyrio*
- Created a lyric-finder web app that auto-updates lyrics based on a user's currently playing song
- Implemented a **Node/Express.js** service to authenticate users and extract song data by accessing Spotify's **OAuth2 Web API** endpoints