

Madhi Nagarajan

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Education

McMaster University

Bachelor of Engineering, Software Engineering

Hamilton, ON

Expected Apr 2023

- **Coursework:** Software Design, Data Structures & Algorithms, Concurrency, Databases, Info Security, and Computer Architecture

Skills

Languages Java, Python, JavaScript, C#, HTML/CSS, SQL, C, Go

Technologies Spring Boot, .NET Core, React.js, Node.js, Express.js, Flask, Git, Bash, MongoDB

Experience

Intact Financial

Backend Developer Intern

Toronto, ON

May 2021 - Apr 2022

- *In Progress* - developing Java Spring Boot microservices on the Commercial Lines, Software Engineering team

Dynasoft Consulting

Full Stack Engineer Intern

Mississauga, ON

May 2019 - Aug 2020

- Spearheaded development of RESTful services for a fleet management web app using **.NET Core**
- Implemented user authentication using .NET Core's Identity API for secure user registration and login
- Optimized database code and queries using **C#** and **SQL** to reduce Azure SQL query time by **30%**
- Designed a responsive dashboard using JavaScript and Google Maps API to monitor crucial dispatch and financial data

FRC 4308: Absolute Robotics

Software Mentor

Mississauga, ON

Sept 2018 - 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](#)

Jan 2021 - Apr 2021

- Architected a note-taking application that seamlessly manages Markdown notes on GitHub repositories
- Integrated with a **Github & Flask API** for GitHub user authorization and one-click repository commits on user notes

Lyrio | [github/lyrio](#)

May 2020

- 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 extract song data and authorize users by accessing Spotify's **OAuth2 Web API** endpoints

Pathify | [github/pathify](#)

Jan 2020 - Apr 2020

- Developed a **React** web-mapping service that produces efficient delivery routes for 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](#)

Jan 2020

- 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