

# Madhi Nagarajan

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## Education

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### McMaster University

Software Engineering (B.Eng)

Hamilton, ON

Expected April 2023

- **CGPA: 3.5/4.0** | Awards: Dean's Honour List, McMaster Entrance Scholarship
- Coursework: Software Design, Data Structures & Algorithms, Concurrency, Databases, Info Security

## Skills

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**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

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### Intact Financial

Backend Developer Intern (12-Months)

Toronto, ON

May 2021 - April 2022

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

### Dynasoft Consulting

Full Stack Engineer Intern

Mississauga, ON

May 2019 - August 2020

- Developed RESTful services and client-side webpages 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 JQuery and Google Maps API to monitor crucial dispatch and financial data

### FIRST Robotics Team 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

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### 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 authorization and repository commits on user notes

### Pathify

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