

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, Computer Architecture

Skills

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

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

Experience

Intact Financial

Software Developer Intern

Toronto, ON

May 2021 - Apr 2022

- Developed **Java Spring microservices** used by 600+ insurance brokers to produce quick and accurate quotes for 100,000+ commercial businesses across Canada
- Utilized **Angular** and RxJS to implement key UI and autofill features, reducing data entry time by **40%**
- Refactored existing Java code across several services to improve code readability and maintainability

Dynasoft Consulting

Full Stack Engineer Intern

Mississauga, ON

May 2019 - Aug 2020

- Spearheaded the 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 with **60+** members to compete and rank against 3,650 teams in international competitions
- Mentored students on **object-oriented design** in Java and robot code management using Git
- Reduced registration fees by 50% due to raising **\$20,000+** in sponsorships, resulting in an increase of 25+ new team members

Projects

GitNotes | [GitHub](#)

Feb 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](#)

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 authorize users by accessing Spotify's **OAuth2** API endpoints

Pathify | [GitHub](#)

Feb 2020 - Apr 2020

- Developed a **React** web-mapping service that produces efficient delivery routes for drivers
- Built a **Spring Boot API** that implements Quicksort and Dijkstra's algorithm to optimize a road dataset with **400,000+ nodes**

Tutorfy | [Devpost](#)

Jan 2020

- Produced a networking platform that connects students with local tutors on university campuses
- Constructed a **MongoDB & Flask API** that manages user data, email requests, and tutor ratings