

Madhi Nagarajan

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Skills

Languages C#, Python, Java, JavaScript, HTML/CSS, SQL, C, PHP
Frameworks .NET MVC, jQuery/Ajax, React.js, Node.js, Flask, Spring
Tools Linux, Git, SQL Server, Azure, MySQL, Apache, MongoDB, Heroku

Experience

Full Stack Engineer Intern

May 2019 - August 2020

Dynasoft Consulting

Mississauga, ON

- Developed REST services and client-side webpages for a fleet management web app using **.NET MVC**, 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

Web Developer Intern

May 2018 - August 2020

Dynasoft Consulting

Mississauga, ON

- Met with prospective clients to garner site requirements and demo UI/UX mockups
- Designed websites using **PHP**, **MySQL** and WordPress CMS, ensuring site performance and reliability
- Trained **Watson AI ChatBots** to interact with site visitors and process email requests through a custom **Node.js** service, increasing site engagement by **50%**

Software & Management Mentor

April 2017 - May 2020

FIRST Robotics Team 4308: Absolute Robotics

Mississauga, ON

- Coordinated a team of **60+** members to build an industrial-sized robot to compete in competitions
- Mentored students on **object-oriented design** in Java and robot code management on Git
- Increased team membership by **115%** by raising over **\$20,000+** in sponsorships, therefore decreasing the registration fee by 50%

Projects

Pathify

Team Project

[gitlab/pathify](#)

- Developed a **React** web-mapping service that enhances route efficiency for delivery drivers
- Built a **Java Spring API** that implemented sorting, hashing, and graph algorithms to optimize a road dataset with **1 million+ nodes**

Tutorfy

DeltaHacks 2020

[devpost/tutorfy](#)

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

Lyrio

Personal Project

[github/lyrio](#)

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

Education

Software Engineering (B.Eng)

Sept. 2018 - April 2022

McMaster University

Hamilton, ON

- **GPA: 3.7/4.0** | Awards: Dean's Honour List, McMaster Entrance Scholarship
- Relevant Courses: Software Design, Algorithms & Data Structures, Databases, Concurrency