

Madhi Nagarajan

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Education

Software Engineering (B.Eng) - Third Year

Sept. 2018 - April 2022

McMaster University

Hamilton, ON

- **GPA: 3.3/4.0** | Awards: Dean's Honour List, McMaster Entrance Scholarship
- Relevant Courses: Software Design (A+), Unix & Assembly (A+), Algorithms & Data Structures (A-)

Skills

Languages C#, JavaScript, Python, Java, SQL, PHP, HTML/CSS, Objective C
Frameworks .NET MVC, jQuery/Ajax, React, Node.js, Flask, Spring
Tools SQL Server, Azure, MongoDB, Firebase, MySQL, Apache, Bash, PowerShell, Git, IBM Cloud

Experience

Full Stack Engineering Intern

May 2019 - August 2020

Dynasoft Consulting

Mississauga, ON

- Utilized **.NET MVC & Entity Framework** to create and enhance **15+** services and webpages
- Integrated key UI components using **jQuery/Ajax** & Kendo UI to visualize fleet and accounting data in the form of charts, graphs, and calendars
- Maintained a Relational Database (RDBMS) through **SQL Server** and **Azure** environments
- Optimized SQL database queries and database code, reducing average SQL Server query time by **30%**
- Integrated Google Maps API to display route maps for transportation drivers

Web Development Intern

May 2018 - August 2020

Dynasoft Consulting

Mississauga, ON

- Created UI/UX mockups and websites for clients, improving overall site traffic and engagement by **50%**
- Utilized **PHP, MySQL, Apache Server**, and **HTML/CSS** to customize WordPress themes and develop plugins
- Trained and integrated AI and machine learning bots using IBM Cloud and **IBM Watson** to communicate and process requests from site visitors

Engineering Mentor

April 2017 - May 2020

Team 4308: Absolute Robotics

Mississauga, ON

- Coordinated a team of **60+** members to build an industrial-sized robot to compete in competitions
- Led team to successfully reach the semi-finals in the 2018 FIRST Robotics World Championships
- Increased team membership by **115%** and met with companies to raise **\$20,000+** in sponsorships
- Mentored 40+ students and 3 sub-teams relating to **Java** software development, electrical systems, and CAD robotics design

Projects

Pathify

Course Project

- A web mapping service made for delivery drivers using **React** and a **Spring REST API**
- Graphed a road dataset with **1 million+ edges** and optimized route paths using Dijkstra's Algorithm and Breadth First Search

Tutorfy

DeltaHacks 2020

- A networking application that connects students with local tutors on university campuses across Ontario
- Created a responsive frontend using React & Material UI to display relevant tutors based on user preferences
- Developed a CRUD API using **Flask & MongoDB** and deployed the app on **Firebase**

Lyrio

Personal Project

- A React application that displays and updates lyrics based on a user's currently playing song
- Created and deployed a **Node.js** server that used Spotify's **OAuth2 Web API** endpoints to authenticate users and extract song data