Madhi Nagarajan

🗓 1-(647)-294-7464 | 🔀 nagarajm@mcmaster.ca | 🎢 madhi-naga.github.io | 🖸 madhi-naga | 🛅 madhi-naga

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 & Documentation (A+), Unix & Assembly (A+), Algorithms & Data Structures (A-)

Skills

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

Frameworks .NET MVC, ¡Query/Ajax, React, Node.js, Flask, Spring

Tools SQL Server, Azure, MongoDB, Firebase, MySQL, Apache, Bash, PowerShell, Git, Selenium

Experience_

Full Stack Developer

May 2019 - August 2020

Dynasoft

Mississauga, ON

· Utilized .NET MVC & Entity Framework to create and enhance 15+ services and webpages

- · Integrated key frontend 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 Developer

May 2018 - August 2020

Dynasoft Mississauga, ON

- · Leveraged technical, analytical, and problem-solving skills to create UI/UX mockups and websites
- · Customized WordPress themes and plugins using PHP, MySQL, Apache Server, and HTML/CSS
- · Created content for SEO purposes, improving overall site traffic by 50%
- Trained and integrated Al and machine learning bots using **IBM Cloud** and **IBM Watson** to communicate and process requests from site visitors

Vice President April 2017 - June 2018

FIRST Robotics Team 4308: Absolute Robotics

Mississauga, ON

- · Coordinated a team of **60+** members to build an industrial-sized robot that participated in numerous competitions, including the FIRST Robotics World Championships held in Detroit, USA
- · Led team to successfully reach the semi-finals in the 2018 FIRST Robotics World Championships
- · Managed the team's finances of \$20,000 and met with companies to raise \$10,000+ 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 that develops efficient & optimized route plans for delivery drivers using React and a Java Spring REST API
- Parsed a road dataset with **1 million+ edges** and graphed the data using Dijkstra's Algorithm and Breadth First Search
- · Worked collaboratively in a Scrum development environment with team members

Tutorfy

DeltaHacks 2020

- · A networking application that connects students with local tutors on university campuses across Ontario
- · Created a dynamic and responsive frontend using React & Material UI to display popular and new tutors
- Built a REST API with **Python Flask** & **MongoDB** for the applications's CRUD operations and deployed the app using **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** API endpoints to authenticate users and extract song data