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, jQuery/Ajax, React, Node.js, Flask, Spring

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

Experience_

Full Stack DeveloperMay 2019 - August 2020

Dynasoft Mississauga, ON

- Utilized .NET MVC & Entity Framework to create 15+ services and webpages with data grid interfaces & entry forms
- Integrated key frontend UI components using tools like **jQuery/Ajax** & Kendo UI to visualize fleet and accounting data
- Created and maintained Stored Procedures, Functions, Table Relationships within **SQL Server**
- 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 dynamic websites
- Customized WordPress themes and plugins using PHP, MySQL, Apache, and HTML/CSS
- Designed and developed UX features that enhanced performance and styling of websites
- Created content for blog and 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 to participate 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 numerous companies to help 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

Software Engineering 2XB3 - Final Project

- A web application that develops efficient & optimized route plans for transportation drivers using a React frontend and Java Spring backend
- Utilized Here's Traffic REST API to form and display a route map based on traffic data
- Featured Dijkstra's Algorithm and Breadth First Search to graph a road dataset with 1 million+ edges
- Worked collaboratively in a Scrum development environment with team members

Tutorfy

DeltaHacks 2020

- A web 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 frontend using **Firebase**

Lyrio

Personal Project

- A React web 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