

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, TypeScript, HTML/CSS, SQL, C

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

Experience

Amazon Web Services

Software Development Engineer Intern

Vancouver, BC

Jun 2022 - Aug 2022

- Led the development of a new CLI feature within **AWS EC2 Autoscaling**, specifically to mitigate Instance Refresh failures by up to **80%** for customers
- Utilized Java, MySQL, and AWS Lambda to implement and integrate with other Autoscaling features
- Documented and composed **50+** integration and regression tests to ensure feature is reliable and scalable prior to public rollout

Intact Financial

Software Developer Intern

Toronto, ON

May 2021 - Apr 2022

- Developed **Java Spring microservices** for a web application used by insurance brokers to generate quotes for commercial businesses
- 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
- Introduced a Python automation test framework to the QA team, reducing integration test runtime by **90%** compared to previous Selenium tests

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

Projects

GitNotes | [GitHub](#)

- 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

Pathify | [GitHub](#)

- 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](#)

- 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