

Sameer Mohamed

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GitHub github.com/sameer3108
Portfolio sameer3108.github.io

SKILLS

Programming Python, Java, C#, SQL, Go, Bash, Markdown **Web** React, Vue.js, PHP, TypeScript, HTML5, CSS3
Other Agile, Git, Maven Unix, .NET, Spring Boot, CI/CD **Cloud** AWS, Azure, Docker, Google Cloud Platform

EDUCATION

Dalhousie University, Bachelor of Computer Science Sep 2019 – Dec 2023
Halifax, NS
With co-op - GPA 3.64 / 4.30

- **Teaching Assistant** for Algorithms course, member of Women in Tech Society and VP of Computer Science Society
- **Relevant Courses:** Web Development, Data Structure Algorithms, Data Science, Databases, Cybersecurity and AI/ML

EXPERIENCE

Varsity Tutor, Programming Tutor Jun 2024 – Present
Halifax, NS
Tutoring Team

Tech Stack Python, Java, C++, PHP, JavaScript

- Provided one-on-one tutoring to university students taking programming and data structures & algorithms courses.
- Tailored lesson plans and broke down complex technical concepts to improve problem solving and coding skills.

Canada Revenue Agency, Software Developer Sep 2022 – May 2024
Halifax, NS
Special Returns - Data Capture Team

Tech Stack Java, C#, Spring Boot, Python, Angular, React, JavaScript, Jira, Linux, Artifactory

- Collaborated within an **Agile-driven team** to develop Underused Housing Tax Return using **Java, Spring Boot and SQL** to implement backend services and **APIs** for tax data processing.
- Coordinated in **unit testing**, managed version control in **Git**, tracked issues with **Jira** to ensure quality and reliability.
- Implemented a **Linux** script to enforce secure coding guidelines, reducing manual work by 80%.
- Deployed web application using Oracle WebLogic Server resulting in a **60% up-time** in web access.

Dash Hudson, Full Stack Developer Jan 2022 – Apr 2024
Halifax, NS
Social Media Management

Tech Stack Vue.js, Python, Flask, MySQL, Elasticsearch, REST API, AWS, Jira, Tailwind, Datadog

- Integrated Facebook interactions using **Vue.js** on social media analytics platform that predicts brand performance.
- Optimized search capabilities by implementing **Elasticsearch** resulting in a **10x improvement** in Instagram search.
- Strengthened test coverage using **JUnit and Cypress**, integrated feedback from retrospective and code reviews.
- Refactored backend schemas for **MySQL** database, optimized REST API using **Python** and **Flask**.

BDO, Junior Developer Apr 2021 – Aug 2021
Halifax, NS
Accounting Firm - SaaS, Development Team

Tech Stack Python, Flask, Jest, Slack API, Power BI, React, Azure Cloud

- Built a Slack Bot in **Python and Flask** that automated **GitHub** workflows for BDO's software developers.
- Performed **unit testing** using Jest and collaborated on managing application infrastructure on **Azure Cloud**.
- Improved user experience of applications by applying UI/UX design principles and participated in DevOps initiatives.

PROJECTS

Heart Disease Prediction Machine Learning with *Python, Pandas, NumPy, Scikit-learn, Matplotlib*
Implemented a heart disease prediction model with **KNN algorithm**, achieving 85% accuracy on UCI dataset

Car Maintenance WebApp with *AWS, Node.js, React, MySQL*
Built a web marketplace by using API Gateway, **Lambda** for backend, scalable bookings with **DynamoDB**, used **SNS** for notifications, added user management and ratings with **MySQL** and built **REST API** endpoints for seamless interactions.

Sleepwell Sleep Tracker with *JavaScript, Node.js, MySQL, Azure Cloud*
Implemented a **JavaScript** website to track sleep and learn about CBT-I. Included sleep diary and calculators which were used to analyze sleep behaviors. Built the website for Dalhousie's Faculty of Health and has over **140k unique users**.

Library Search Engine with *JavaScript, PHP, MySQL*
Built a search web application using server-side scripting to retrieve books by title, type or author stored in **MySQL** database.