

# Al-Falahy

FullStack Developer/ AWS Backend Engineer

[mohammedfalahy6@gmail.com](mailto:mohammedfalahy6@gmail.com)

3094 HighValley Road  
Oakville, ON, L6M 5H3  
(647) 667-0878

## EXPERIENCE

### **AI Fit Assistant, FreeLance — AWS cloud Developer / AI Data Analyst / React-Native Developer**

FEB 2022 - CURRENT

Utilized Java and Spring Boot for building robust, secure, and scalable backend services.

Designed and implemented REST API's to facilitate communication between the front-end application and server logic.

Utilized Spring Boot to develop microservices for modular functionality of the application, facilitate scalable, maintainable, and resilient services.

Managed data using AWS DynamoDB, providing a flexible and secure environment for data storage and retrieval.

Developing a comprehensive fitness application using React Native for cross-platform mobile application development.

Leveraging AWS services such as Cognito, Amplify, S3, Java, Spring Boot, EC2, RDS for implementing the backend infrastructure.

I incorporated OpenAI's SDK into the application to enable AI functionalities such as creating personalized diet/workout plans for my users, and customizable User Interface to match athlete's fitness lifestyle.

Providing support to app users, addressing their concerns and feedback, and continuously improving the app based on user feedback

### **RideFlag Tech, 4232 SherWoodTowne Blvd — AWS Backend Lead Developer**

SEPT 2021 - MAY 2023

Led the design, development, and deployment of scalable cloud backend services that integrate with our IOS and Android applications supporting different environments for different App versions.

Implemented microservice architecture patterns for the deployment of cloud-based applications to facilitate scalability, maintainability, and fault tolerance.

Responsible for designing, developing, and maintaining complex backend services using AWS services such as Lambda and API gateway, EC2, S3, DynamoDB, RDS etc

Collaborated with software architects to plan and implement robust and

## SKILLS

React.JS, Node.JS, NextJS, Ruby, NextJS, Angular5

Python, Java, TypeScript, Golang

MongoDB, DynamoDB, SQL, Oracle IBM, Redux

REST, JSON, SOAP, RPC

VSCode, github, CI/CD, Unit Testing, Amplify Studio, XCODE

AWS, Lambda, Cognito, API gateway, RDS, EC2, IAM, AWS-cdk, CloudWatch

Agile, Scrum, JIRA

## AWARDS

President's Honors List

AWS Certified

Placed 2nd in Men's  
Physique Toronto

## LANGUAGES

English, Kiswahili, Arabic, Hindi

scalable backend architectures using AWS services.

Conducted code reviews and quality assurance tests to ensure the robustness and reliability of the backend infrastructure.

Managing AWS resources and services effectively, considering aspects such as cost, performance, and security.

Incorporating DevOps practices in the development cycle, including using AWS CodePipeline for CI/CD, AWS CloudFormation for infrastructure as code etc

Provided leadership and guidance to junior backend developers, assisting with their technical challenges, and helping with their career growth.

Designed and managed IAM Policies and Roles to provide least-privilege access to AWS services, ensuring a secure application environment.

Established Multi-Factor authentication (MFA) for AWS users and roles to enhance security.

Developed IAM strategies for role-based access control, successfully segregating duties within teams.

Provisioned and managed EC2 instances to host the application's backend services.

Utilized EC2 Auto Scaling to ensure high availability and fault tolerance of applications.

Designed, implemented, and maintained DynamoDB tables to support application data requirements.

Implemented Lambda functions using ReactJS, Python 3.10, and NodeJS, and configured API Gateway for Lambda accessibility.

Managed DynamoDB data backup and restore operations, ensuring data integrity and availability.

Optimized message processing and ensured reliable message delivery by effectively using SQS dead-letter queues.

Utilized SNS for push notifications and to manage system-to-system and app-to-person communication.

Implemented CI/CD pipelines for automated deployment of backend services on AWS.

## **MPOD Solutions, 1750 Finch Avenue East — Ruby *FullStack Developer***

MAY 2019 - AUG 2021

Assumed a Leading role in designing, developing, and implementing customer-facing features of web applications using technologies such as HTML, CSS, JS, with distinct emphasis on frameworks such as React.js, Angular.js, and Vue.js

Implemented backend APIs using Ruby on Rails for data exchange between the server and UI components, enhancing the performance of the application, using Ruby on Rails and ActiveRecord.

Created and managed databases, developing queries, and handling data migration, backup, and performance of the application.

Collaborated with UI/UX designers to implement user-friendly interfaces using Rails' view helpers and Rails-based frontend frameworks. These interfaces adhered to design guidelines and effectively met user needs, enhancing overall user experience and satisfaction.

### **Service Ontario, 777 Bay Street — *Java App Developer / Analyst***

FEB 2017 - MARCH 2019

Developed and maintained robust, scalable applications using Java, exhibiting an in-depth understanding of OOP principles and design patterns.

Utilized Spring Boot for the rapid development of microservices, enabling faster time-to-market of software products.

Employed Spring Data JPA for database interactions, simplifying data access layer code.

Utilized AWS Elastic BeanStalk for deploying and scaling Spring Boot applications with minimal infrastructure management.

Documented code and software functionality to ensure team members understand how the system works.

Troubleshooting software issues to ensure the smooth functioning of the applications.

Provided regular reports on the status of development projects, potential issues, and proposed solutions

### **RedHat, 90 Eglinton Avenue East — *NodeJS /MongoDB Software Engineer***

FEB 2020 - SEP 2021

Designed and implemented dynamic and responsive user interfaces using Angular Framework, NodeJs, and React.

Used RxJS and state management libraries (like NgRX or Redux) for efficient state management in Angular Applications.

Collaborated with UI/UX designers to translate design into high-quality code, and ensure the technical feasibility of UI/UX designs.

Implemented, and maintained MongoDB Databases to support application requirements.

Used MongoDB Atlas for managing database operations in the cloud, improving scalability and flexibility.

Implemented data backup and restore strategies in MongoDB, ensuring data availability, and integrity.

Implemented RESTful secure web authenticated API's according to the business application requirements using React and NodeJS.

## EDUCATION

**Seneca College, 1750 Finch Avenue East — Bachelors 4.9GPA**

SEPT 2015 - NOV 2017

Computer Programming & Analysis (President's Honors List Award)

**Almuntazir International, Tanzania — HighSchool**

JAN 2015 - JULY 2017

Physics, Chem, Biology, Maths & IT

## ACCOMPLISHMENTS

President's Honors List Award for maintaining a perfect 4.0 GPA

Obtained AWS Linkedin Badge and placed in top 30% of successful badge owners amongst 1.4m people who took the test.

Placed 2nd in a Professional Bodybuilding Competition in 2021

Successfully climbed Mt. Kilimanjaro, the tallest mountain in Africa (2017)

## PROJECTS

**Github**

<https://github.com/mamdinho>

**My Portfolio**

<https://mamdinho.github.io/myPortfolio/>

**RideFlag Dashboard — Fully Deployed Web App (copyRight @RideFlag Tech)**

<https://www.rideflagdashboard.com/login.html>