

# Mohamed Mushraf

## Software Engineer

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### PROFESSIONAL EXPERIENCE

#### The Software Practice (Pte) Ltd.

Nov 2023 – Jun 2024

##### Software Development Engineer Intern

- Developed new API endpoints covering the application flow for regression tests, ensuring system stability and reliability, while collaborating with DevOps teams to streamline deployment and monitoring.
- Tested API endpoints thoroughly, analyzing all possible edge cases and identifying issues to enhance system robustness, following an Agile/Scrum development process.
- Developed and executed unit tests using xUnit, NSubstitute, and AutoFixture to ensure code quality and reliability.
- Worked on documentation to streamline development and communication processes, contributing to improved team collaboration in an Agile environment.

**Tech Stack:** .NET Core, EF Core, MS SQL Server, RESTful APIs

#### Jewelry Store Management System

Oct 2024 – Jan 2025

##### Freelance Project

- Developed a Jewelry Store Management System with inventory, sales, supplier tracking, role-based access, customer management, reporting, and barcode integration.
- Designed with Clean Architecture using Dependency Injection, MediatR, CQRS, and the Result pattern for scalability and maintainability.
- Deployed on AWS with EC2, RDS (private VPC), S3, and VPC for security, scalability, and high availability.
- Set up CI/CD with GitHub Actions, Nginx reverse proxy, and managed stage, dev, and production environments.

**Tech Stack:** .NET Core, EF Core, MySQL, React and AWS(EC2, S3, RDS), React Query

### EDUCATION

#### University of Moratuwa

Aug 2021 – present | Moratuwa, Sri Lanka

Bsc. (Hons) in Engineering, Specializing in Computer Science and Engineering

- CGPA:** 3.6/4.0
- Relevant Coursework:** Software Engineering, Data Structures & Algorithms, Program Construction, Computer Architecture, Computer Networks and Security, Database Systems, Human-Computer Interaction, Programming Languages, Data Mining, Advanced Machine Learning, Distributed Systems, Deep Neural Networks

#### Pu/ President's Science College

Jul 2017 – Aug 2019 | Puttalam, Sri Lanka

G. C. E. Advanced Level

- Results:** 3A's in Combined Mathematics, Physics and Chemistry

### PROJECTS

#### AccoMind

May 2024 – present

##### Academic Project

An LLM-based solution to predict future investment opportunities in registered companies. This solution focuses on extracting and inferring data from financial documents and other sources, such as websites, to provide users with critical insights for decision-making.

**Tech Stack:** LangChain, Milvus (Vector Database) and FastAPI

#### Podur Stock Management Software

Mar 2024 – Aug 2024

##### Freelance Project

- Developed a Stock and Production Asset Tracking Software for a garment business, integrating inventory management and production reporting to streamline operations.
- Led a team of five developers, ensuring successful project completion through effective collaboration, task management, and agile development practices.
- Optimized system performance and maintainability by implementing best practices in software architecture, database design, and cloud deployment.

**Tech Stack:** Django, Mysql, React and AWS(EC2, S3, RDS)

### Speech Visualization

Jun 2023 – Oct 2023

Academic Project

- Develops a demo dashboard that integrates ML models to analyze and visualize speaker characteristics (age, gender, emotion, emotion intensity, accent, and transcript) from audio files and real-time input.
- **Contribution:** Fine-tuned pre-trained models and built the dashboard integrating the Google transcription API.

**Tech Stack:** PyTorch, Wav2Vec, React and Flask

### Jupyter HRM

Sep 2022 – Jan 2023

Academic Project

- Implemented leave request, request approval, maternal leave, account creation(by admin) in a multi-tenant manner.

**Tech Stack:** React, Material UI, Express.js, Node.js, and MySQL

### Email Client

Mar 2023 – May 2023

Academic Project

Cli Based Email Client Application Developed in Java, Demonstrating OOP principles and Design Patterns.

**Tech Stack:** Java, Javax Mail

## SKILLS

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**Programming Languages:** Python, Javascript, Typescript, C#, Java, PHP

**Frontend Frameworks:** React.js, Next.js, Flutter, React Native

**Backend Frameworks:** .NET Core, Django, FastAPI, Flask, Express.js

**Databases:** MySQL, PostgreSQL, MongoDB, MS SQL

**Data Analytics and ML:** Scikit-Learn, Pandas, Tensorflow, PyTorch

**Concepts:** Design Patterns, RESTful APIs, CI/CD, Microservices

**Others:** AWS, Linux, Git, Github Actions, Docker, Nginx

## CERTIFICATES

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**M121: The MongoDB Aggregation Framework:**  MongoDB University

**Supervised Machine Learning: Regression and Classification:**  DeepLearning.AI | Coursera

**Database Structures and Management:**  Meta | Coursera

**Python for Everybody Specialization:**  University of Michigan | Coursera

**AWS Cloud Technical Essentials:**  AWS | Coursera

## VOLUNTEERING

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### Edextor Quiz Application

Jan 2024 – Aug 2024

Team Lead

Lead the team of six developers on developing a quiz application to practice for Advanced Level Students.

**Tech Stack:** .NET Core, Flutter, PostgreSQL

### Majlis-UL-Islam - University of Moratuwa

Jan 2024 – May 2024

Website Development Team Lead

Led a team of three in developing the website for Majlis-UL-Islam at the University of Moratuwa.

**Tech Stack:** Next.js, GraphQL, TailwindCSS

## REFERENCES

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**Dr. Thanuja Ambegoda**, Senior Lecturer, Department of Computer Science and Engineering, University of Moratuwa  
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