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Mahmud Zaman Bali

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EDUCATION

Queen Mary University of London

London, United Kingdom

MSc, Artificial Intelligence

2022 – 2023

- **1st class Distinction.**
- **Modules:** Natural Language Processing, Machine Learning, Applied Statistics, Deep Learning.

American International University-Bangladesh

Dhaka, Bangladesh

BSc, Computer Science and Engineering

2017 – 2021

- **GPA:** 3.93/4.00
- **Modules:** Software Engineering, Web Technologies, Object Oriented Programming, OOP Analysis & Design.
- **Achievements:** Dean's List Award.

PROJECTS

BugBlitz | .NET Core, Next.js, PostgreSQL, Docker, Azure

- Developed using .NET Core 8 and Next.js by adhering to SOLID guidelines.
- Devised secure authentication, built CRUD operations, improving project efficiency.
- Decreased code complexity by 20% by delegating authentication to an OAuth2 microservice.
- Applied caching in Next.js, substantially cutting back on database queries and boosting efficiency.
- Deployed on Azure VM using Docker Swarm (CapRover) with HTTPS for API & Client.
- GitHub: <https://github.com/mzbali/bugblitz>
- Website: <https://bugblitz.mzbali.com>

Storetail | .NET Core, React, Redux, PostgreSQL, JWT, Stripe

- Created a robust e-commerce website using .Net Core 6 and React.
- Leveraged Extension Pattern with SOLID principles for enhanced code organisation and readability.
- Formulated a CI/CD pipeline using GitHub Actions, enabling an efficient development-to-deployment transition.
- Conducted the deployment of a dockerised app on Azure VM, reinforced with SSL encryption.
- GitHub: <https://github.com/mzbali/storetail>
- Website: <https://storetail.mzbali.com>

EXPERIENCE

Teaching Assistant

2020 – 2021

American International University-Bangladesh

Dhaka, Bangladesh

- Co-ordinated in tandem with teachers to prepare materials for lesson planning.
- Collaborated with lead teachers to recognise issues students are facing and recommend solutions.
- Engaged with students individually or in small groups for the revision of lesson material.
- Constructed engaging quiz questions related to Computer Science, enhancing student assessment and reinforcing learning objectives.

TECHNICAL SKILLS

Languages: C#, TypeScript, Python, JavaScript

Frameworks: .NET Core, React, Next.js

Databases: PostgreSQL, Redis

Developer Tools: Git, Bash, Docker, GitHub Actions

Environment: Rider, VS Code, MacOS, Linux

LANGUAGE PROFICIENCY

English: Fluent (IELTS 7.5)

Bengali: Native

MISCELLANEOUS

Work Permit: Authorised to work within the UK without requiring visa sponsorship now or in the future.