

Abu Mazhar

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Summary

Full-stack software engineer experienced in building high-performance web applications and microservices in financial services. Skilled in Go, Python and Java with a strong record of automating workflows, scaling backend systems, and delivering user-centric features across cloud platforms.

Experience

Full-stack Engineer (Go) - Cybersecurity

London, UK

HSBC

Aug 2024 – Present

- Led end-to-end development of multiple production cybersecurity web applications in Go, delivering both backend services and frontend components using Echo and Templ.
- Designed and implemented scalable Go REST APIs serving 50k+ weekly production requests; built automated OpenAPI specification generation enabling successful integration with Azure API Management for external consumers.
- Built Go-based metadata collection services and Databricks dashboards monitoring 1,000+ weekly unique user interactions, significantly improving visibility into application usage and performance.
- Developed Python scripts for users to consume and interact with production APIs, using concurrent requests to improve performance for bulk operations.
- Significantly reduced manual regression testing by adding Python-based automated tests to deployment pipelines to validate web applications and APIs before release.
- Tech: **Go, Python, JavaScript, HTMX, Templ, Azure, Databricks**

Graduate Backend Engineer

London, UK

HSBC

July 2022 – Aug 2024

- Integrated a Spring Stream-based API processor that handled more than 100,000 daily calls in production.
- Designed and implemented an automated healthcheck scheduler using Java and Spring, removing majority of manual checks which were done daily.
- Significantly reduced processing times for multiple functions in one of our trade flows, in one case from 20ms to 1ms.
- Tech: **Java (Spring), PostgreSQL, Kubernetes, Solace, Jenkins, Grafana**

Education

University of Edinburgh

2020 – 2021

MSc Computational Applied Mathematics

- Achieved Merit
- **Modules included:** Machine Learning in Python, Biomedical Data Science, Data Analytics with High Performance Computing.

King's College London

2017 – 2020

BSc Mathematics

- Achieved First Class Honours
- **Modules included:** Numerical and Computational Methods, Time Series Analysis, Complex Analysis.

Technologies

Languages: Go, Java, Python, JavaScript, HTML, CSS, SQL

Technologies: Kubernetes, Docker, Jenkins, Grafana, AWS, Azure, Databricks, Postgres, Git