

# Shayan Mudassar

## Full-Stack Engineer (Product & Platform Focused)

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Senior Full-Stack Engineer with strong backend and platform focus, experienced in building production-ready, customer-facing systems. Proven ability to own features end-to-end across APIs, data, cloud infrastructure, and deployment. Strong background in event-driven architectures, reliability patterns, and scalable system design.

### WORK EXPERIENCE

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#### Backend Engineer (Product-Facing Systems)

January 2024 – Nov 2025

Fixfirst, Germany (remote)

- Designed and delivered backend services powering customer-facing workflows used in real-world, high-traffic environments.
- Owned API contracts end-to-end, collaborating closely with frontend and product teams to support evolving user journeys.
- Translated product requirements into scalable services and data models across multiple customer workflows.
- Improved system performance by reducing latency on critical endpoints and improving failure handling for key flows.
- Implemented reliability and observability patterns including retries, idempotency, structured logging, and monitoring.

**Tech:** Node.js, TypeScript, AWS (Lambda, SQS, SNS, Cognito), MySQL (sequelize)

#### Full-Stack Developer

January 2021 – Aug 2023

SMSAMI, Pakistan (onsite)

- Owned full-stack features from UI implementation through backend logic and production deployment.
- Built and maintained customer-facing dashboards and internal tools used by business users.
- Delivered end-to-end solutions spanning frontend interfaces, APIs, databases, and cloud deployment.
- Worked directly with stakeholders to refine requirements and iterate based on user feedback.
- Contributed to code reviews and supported junior developers.

**Tech:** TypeScript, Node.js, REST APIs, dynamoDB(Dynamooose), Cloud-based deployments, Jest

#### Junior Full-Stack Developer

June 2019 – Dec 2020

AYS Electronics, Pakistan (onsite)

- Implemented frontend features and backend endpoints for live production systems.
- Worked on real customer requirements, bug fixes, and incremental feature delivery.
- Gained hands-on experience across UI development, backend services, and database integrations.

**Tech:** Python, Backend APIs, Relational Databases

### EDUCATION

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**MEng** - Applied AI

**Relevant coursework:** Machine Learning, Industrial Cyber-Physical Systems

**BEng** - Computer Science

**Relevant coursework:** Data Structures, Distributed Systems, Databases

## PROJECTS

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### Sentinel Incident Platform, [Link](#)

- Designed an event-driven incident workflow platform inspired by real-world SRE and reliability engineering practices.
- Built alert ingestion, correlation, and state-management workflows to simulate production incident lifecycles.
- Implemented reliability patterns including idempotency, retries, and dead-letter queues to handle failure scenarios safely.
- Added structured logging and observability to enable traceability and debugging of complex event flows.

**Tech:** Node.js, Event-driven architecture, AWS-style messaging patterns

### Network Anomaly Detection, [Link](#)

- Developed an anomaly detection system to identify unusual network behaviour from log data without relying on labelled incidents.
- Built a feature pipeline and evaluated unsupervised models such as Isolation Forest and One-Class SVM.
- Designed experiments to balance sensitivity and false positives for operational use cases.

**Tech:** Python, Machine Learning, Data Processing

## CERTIFICATION & ADDITIONAL INFORMATION

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- Certified Ethical Hacker (CEH) – LearnPentest
- Data Science & Machine Learning – Kamyab Jawan Programme