

SOHAIL SHAIK

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EDUCATION

University of Missouri-Kansas City

Bachelor of Science in Computer Science

Kansas City, MO

Graduated: May 2024

EXPERIENCE

Software Development Engineer

June 2025 – Present

Amazon Web Services (AWS)

Seattle, WA

- Authored and drove approval of the design for a seller-payable data-correction system spanning three new marketplace operators (Brazil, India, Chile) and multiple upstream data owners; now leading implementation to eliminate uncorrectable payout errors
- Solo-architected an event-driven microservice using AWS Lambda, SQS, and DynamoDB, reducing seller listing-fee correction times by 97.9% (from ~4 hours manual operator workflow to ~5 minutes) across 6 marketplace regions
- Root-caused a full-table scan in the daily seller-payout batch that was paging on-call every morning, and added a four-column composite index, cutting query p99 from ~8s to ~4ms and eliminating the recurring page
- Launched AWS Marketplace Brazil for foreign vendors by building the Java handler on Lambda, SQS, S3 enforcing a 30-day payout hold, cross-account KMS audit trails, and idempotent DLQ processing
- Engineered a SOX-compliance monitoring service on AWS Lambda, DynamoDB, and EventBridge that tracks stuck transactions, alerts on 4-hour SLA breaches, and auto-files debugging tickets with the last-known state

Software Engineer

May 2024 – May 2025

Trueparkings

Kansas City, MO

- Built a session-billing engine that ingested license-plate telemetry to issue checkout charges, processing 12,000 sessions/day
- Implemented idempotent payment handling using Stripe request-id keys and DB transaction locking to safely handle concurrent peak reservations
- Designed a Redis cache over PostgreSQL for real-time spot occupancy state, achieving ~8ms p99 read latency

Software Development Engineer Intern

July 2021 – Dec. 2021

Code-Y-Gen

India

- Developed server-side REST APIs using Spring Boot and Hibernate ORM for a web platform engagement with Vellore Institute of Technology (VIT)
- Wrote end-to-end integration tests for the student application to catch regressions across REST endpoints and the data layer

PROJECTS

Triager | *Python, FastAPI, MCP, Anthropic API, CloudWatch, SQS, Docker*

- Built an event-driven FastAPI pipeline that ingests CloudWatch alarm webhooks and invokes an LLM agent to diagnose seeded incidents in under 20 seconds
- Implemented read-only MCP servers to grant least-privilege tool access to CloudWatch Logs and SQS DLQs
- Shipped an eval harness with a 150-incident golden dataset scored via programmatic checks and LLM-as-judge, benchmarking 4 models across accuracy, latency, and cost

Distributed API Rate Limiter | *Go, Redis, gRPC, Docker, Linux, AWS EC2*

- Architected a low-latency Go microservice to intercept and govern inbound API traffic across a multi-node cluster
- Implemented a Token Bucket algorithm via Redis Lua scripting to guarantee atomic updates and eliminate race conditions
- Used gRPC over HTTP/2 between rate-limiter nodes to minimize per-call overhead, with the Redis-backed token store shared across the cluster

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, Bash

AWS Services & Databases: MySQL, Aurora, DynamoDB, Amazon RDS, Lambda, Step Functions, EC2, S3, VPC, IAM, SQS, SNS, CDK, CloudFormation, API Gateway, KMS, Amazon Bedrock

Systems & AI Engineering: System Design, AI Agent Architecture, LLM Orchestration, Financial Data Pipelines, Ledger Systems, Microservices, Event-Driven Architecture, REST APIs, Relational Database Design

Frameworks & Tools: React, Node.js, FastAPI, JUnit, Git, Docker, TravisCI