

SOHAIL SHAIK

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EXPERIENCE

- OmniqAI — Software Development Engineer (SDE)** January 2025 – Present
- Led migration from on-premises infrastructure to multi-cloud, Kubernetes-based architectures with VPC-secured clusters and automated deployments using Helm and Terraform.
 - Architected scalable backend systems leveraging retrieval-augmented generation (RAG), memory layers, and knowledge graphs to build decision support and document understanding AI agents.
 - Developed autonomous AI-driven workflows for technical interview automation, including resume parsing, behavioral scoring, and contextual code analysis with multi-step reasoning.
 - Implemented semantic knowledge pipelines and vector search with Qdrant, enabling real-time information retrieval for consistent AI agent behavior.
 - Enhanced cloud infrastructure security with anomaly detection, VM monitoring, and enforced secure service mesh layers.
 - Accelerated DevOps automation through GitOps, fast rollback, and advanced observability—reducing release cycles by 40% and improving reliability.
 - Built operational dashboards, modular API backends, and infrastructure-as-code, ensuring repeatable and resilient system deployment.
 - Optimized CI/CD and container orchestration, reducing cloud costs by 20% and improving deployment resilience.

- OmniqAI — Software Development Engineering Intern** August 2024 - December 2024
- Developed and maintained backend microservices and RESTful APIs using Python for large-scale projects.
 - Implemented monitoring, alerting, and system health dashboards using Grafana, Prometheus, and Alertmanager, achieving a 30% improvement in incident response time.

SKILLS

Languages: Python, TypeScript, C++

Backend/Cloud: FastAPI, Node.js, Kubernetes, Docker, Helm, Terraform, AWS, Linode

Data/Messaging: PostgreSQL, MongoDB, Redis, RabbitMQ, MinIO, Qdrant

DevOps/Tools: GitHub Actions, GitOps, Prometheus, Grafana, Loki, MCP, Postman

Core: Data Structures and Algorithms, System design, Problem-solving, Agile collaboration

PROJECTS

- TraceFox AI — AI-Powered Code Review & Test Platform** [\(Code\)](#)
- Architected and implemented an end-to-end quality workflow control center using FastAPI, orchestrating webhooks, modular backend services, and pipeline eventing for pull request analysis, automated test generation, root-cause analysis, compliance, and drift detection.
 - Designed a robust API gateway with a dynamic service registry for domain orchestration; integrated resilience patterns (retries, circuit breakers) and a structured event bus for inter-service decoupling.
 - Automated GitHub onboarding for repository cloning and indexing, supporting both simulated and real clone flows with async task tracking and persistent state in SQLite.

- Developed AI review and test generation flows leveraging DeepSeek R1 and Gemma-3-27B-IT models, with robust JSON parsing, deterministic fallbacks, and caching; exposed live review and test data via a Next.js Mission Control UI.
- Enabled simulated execution artifacts, RCA correlation, drift/compliance feedback aggregation, and real-time dashboarding for engineering visibility and feedback loops.
- Automated multi-cloud deployment scaffolding with Docker Compose and Terraform (AWS/Azure) and integrated OpenTelemetry-driven observability, secure token/session management, and end-to-end structured logging.
- **Tech stack:** Python, FastAPI, Node.js, Next.js, Redis, Postgres, Neo4j, Qdrant, SQLite, Terraform, Docker, GitHub API.

EDUCATION

Bachelor of Technology (B.Tech)

2019 - 2022

Brindavan Institute Of Technology And Science

ACHIEVEMENTS

- **SAP Hackfest 2024:** Top 4 out of 30+ teams for a disaster management crowdsourcing solution.
- **SAP India Flipkart Robotics Challenge:** Finalist for AI-based vision quality inspection system.