

# SOHAIL SHAIK

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## EXPERIENCE

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### 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

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**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

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### 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

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**Bachelor of Technology (B.Tech)**

2019 - 2022

Brindavan Institute Of Technology And Science

## ACHIEVEMENTS

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- **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.