

Mohd Farhan Khan

[linkedin.com/in/farhan-khan](https://www.linkedin.com/in/farhan-khan) | github.com/f1rh1n — fk3205545@gmail.com

TECHNICAL SKILLS

Languages: Python, Bash, JavaScript

Tools: AWS (EC2, S3, ECS, Lambda, IAM, CloudWatch, CodePipeline), Terraform, CloudFormation, Docker, Kubernetes, GitHub Actions, Prometheus, Grafana, Trivy, KubeArmor, Ollama, ChromaDB (RAG)

PROJECTS

Enterprise Document Chatbot | *Ollama, FastAPI, ChromaDB, React, Docker*

- Developed a Retrieval-Augmented Generation (RAG) chatbot capable of answering queries from enterprise documents (PDF, DOCX).
- Integrated Ollama for local LLM inference, eliminating reliance on external APIs (OpenAI/Claude).
- Containerized services with Docker Compose and exposed REST endpoints for ingestion, health, and query.
- Delivered a full-stack solution (React frontend + FastAPI backend) demonstrating scalable and modular AI deployment.

Wisecow – Kubernetes CI/CD App | *Kubernetes, Docker, GitHub Actions, Trivy, KubeArmor*

- Containerized and deployed a Node.js microservice on Kubernetes with Ingress, liveness/readiness probes, and ConfigMaps.
- Implemented GitHub Actions pipeline (test → build → scan → deploy) with automated Trivy security scanning.
- Applied KubeArmor security policies and non-root containers to enforce runtime hardening.
- Set up monitoring with Prometheus + Grafana for metrics and dashboards, replicating real-world production practices.

AI-Driven Cloud Infrastructure Monitor | *AWS Lambda, CloudFormation, CloudWatch, SNS, Python*

- Automated deployment of a serverless monitoring system using CloudFormation (infrastructure-as-code).
- Configured AWS Lambda functions to process CloudWatch metrics and send alerts via SNS.
- Integrated optional AI-based log analysis to provide predictive insights for infrastructure health.
- Enabled one-command deployment, showcasing operational excellence with reproducible IaC.

Self-Healing Infrastructure | *Terraform, AWS ASG, ALB, EC2, IAM*

- Provisioned a fault-tolerant web application architecture with Terraform (IaC).
- Configured Auto Scaling Group (ASG) and Application Load Balancer (ALB) to automatically replace failed instances.
- Defined IAM roles and outputs for secure, repeatable provisioning of cloud infrastructure.
- Documented high-availability architecture with scalability and resilience considerations.

EXPERIENCE

Associate Software Engineer

Accenture ATCI

Sept. 2024 – Present

Gurugram, Haryana

EDUCATION

St. Anthony's Sec. School

High School -79.6

Fatehgarh, U.P.

March 2018

St. Anthony's Sec. School

Intermediate -72.2

Fatehgarh, U.P.

March 2020

NIET Gr. Noida

B.TECH (I.T.)-76

Gr. Noida, U.P.

Oct. 2020 – May 2024