

ASIM ALI

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Software Engineer | Distributed Systems and Product Engineering

Nearly five years of engineering that runs from the infrastructure layer to the product surface. Comfortable designing distributed systems that hold up under real load, and equally comfortable sitting with a client, scoping an MVP, and shipping it. Reaches for AI when the problem actually calls for it, not by default.

EXPERIENCE

Veeam Software

Software Development Engineer

Islamabad, Pakistan

Dec 2025 to Present

Previously Securiti.ai, acquired by Veeam in Dec 2025.

- Redesigned file chunking and task scheduling in the Hyperdrive distributed worker for S3 workloads of millions of files, cutting overall processing time by 87%.
- Built a distributed Elasticsearch ingestion worker that consumes findings from multiple streams, groups and batches records by finding type, and handles ingestion end to end, returning reliable results within seconds under production load.
- Designed graceful cancellation for long running workflows spanning Kubernetes workers and AWS Lambdas, keeping state consistent and termination safe across every cancellation path.
- Extended the Hyperdrive State Tracker to aggregate live execution metrics from thousands of Kubernetes workers and Lambdas via Prometheus, calculating statistics and persisting them in PostgreSQL.
- Shipped Terraform managed Grafana dashboards and threshold based alerting for worker and queue health across thousands of distributed workloads.

Securiti.ai

Backend Developer

Islamabad, Pakistan

Dec 2024 to Dec 2025

- Built a Kubernetes native distributed audit log ingestion framework that continuously scanned S3 for service logs and spawned processing tasks on demand, ingesting millions of records into ELK with under 1% failure rate.
- Contributed to a Hyperdrive workflow that dynamically scaled Kubernetes workers and AWS Lambdas to workload size, and developed the Hyperdrive State Tracker to follow executions across services, monitoring ingestion progress, pending ingestions on S3, and timeouts.
- Built cloud based data export pipelines to transform, encode, and publish large scale datasets to S3 in standardized formats for downstream consumption.
- Implemented fine grained NTFS and share level access policy enforcement for SMB, plus access control for Snowflake and Databricks, strengthening governance across hybrid data environments.

Quest

Software Engineer

Islamabad, Pakistan

Jul 2023 to Nov 2024

- Owned end to end delivery of client facing SaaS and automation products, from requirements and architecture through implementation, deployment, demos, and iteration.
- Led development of a GIS based web application using React, Node.js, and PostgreSQL, improving spatial search performance by 70% through backend and query optimization.
- Automated product listing, order processing, vendor coordination, and operational workflows for an ecommerce client running at \$300K+ per month in revenue.
- Built a Generative AI workflow automation platform that reduced operational effort by 60% by automating client specific business processes.

Independent

Freelance Software Engineer

Remote

Oct 2021 to Jun 2023

- Delivered software for startups and small businesses, owning requirements gathering, technical planning, implementation, and deployment, with hands on backend development, algorithm implementation, and performance optimization.

SELECTED PROJECTS

- Company Intelligence Engine

Personal

 - AI powered platform that monitors public companies' SEC filings and news announcements, turning unstructured disclosures into structured investor events through document ingestion, semantic retrieval, and LLM driven interpretation, with quarter over quarter change detection and every claim traceable to its source passage.
- Automated Multi Instance Deployment Platform

Freelance

 - Provisions up to 10 isolated instances of a configurable web application on a single EC2 host from one command, wiring up application parameters, dedicated PostgreSQL databases, domain routing, IP mappings, and SSL certificates, reducing production provisioning to a single script invocation.
- Car Rental Automation

Freelance

 - End to end platform built on n8n, Supabase, Vite.js, and GPT APIs that automates booking, dealer coordination, payment workflows, and operational data synchronization, reducing manual effort by 80%.

SKILLS

Languages	Go, JavaScript, TypeScript, Python, SQL
Backend and Data	Go, Node.js, PostgreSQL, Redis, REST APIs, Microservices
Distributed	Distributed Workers, Event Driven Architectures, Workload Orchestration
Cloud and Infra	Kubernetes, AWS (S3, Lambda, EC2), Docker, Helm, Terraform
AI and LLM	LLM Integration, LLM APIs, RAG Pipelines, Semantic Retrieval, AI Workflow Automation
Observability	Prometheus, Grafana, ELK, Elasticsearch
Frontend	React.js, Vite.js

EDUCATION, CERTIFICATION, AND COMMUNITY

- NUCES FAST, Bachelor of Science in Computer Science

Islamabad, Pakistan
- Microsoft Certified: Azure Fundamentals
- IEEE Computer Society, FAST NUCES, Vice Chairperson

May 2022 to Jun 2023
- Led technical workshops, hackathons, and industry partner events.