Majid Ali, MS

Senior Backend & Cloud Engineer | TypeScript, Node.js & Python | Production LLM & MCP Integrations

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Karachi, Pakistan (Open to Remote / Relocation)

Summary

Senior Backend & Distributed Systems Engineer with 7+ years of experience designing scalable APIs, microservices, and cloud data workflows using TypeScript, Node.js, Express, Python, and FastAPI. Architected AWS EKS/Fargate microservices fleets and redesigned Azure cloud infrastructure to achieve an ∼88% cloud cost reduction ($12,000 to $1,500/month). Built production Model Context Protocol (MCP) servers and multi-agent LLM systems across OpenAI, Anthropic, and Gemini ecosystems, backed by high-performance PostgreSQL and vector database storage.

Technical Skills

Backend & Cloud Infrastructure
– Cloud Platforms & Serverless: **Google Cloud Platform (GCP)**, **AWS (EKS, Fargate, Lambda)**, Azure App Services
– Architecture & APIs: **Node.js**, **TypeScript**, Express.js, **Python**, **FastAPI**, Koa2, RESTful APIs, NATS Streaming
– Containerization: **Docker**, **Kubernetes (EKS)**, AWS ECS, Fargate, Serverless Compute, Load Balancing
– DevOps & CI/CD: **GitHub Actions**, GitLab CI, Multi-Environment Release Pipelines, Automated Testing

Databases & Data Engineering
– Databases & Storage: **PostgreSQL**, **MySQL**, MongoDB, Redis, Pinecone Vector DB, Cassandra
– Optimization & Migration: **PostgreSQL Query Tuning**, Schema Design, Redshift to ClickHouse Migration
– Security & Governance: **Role-Based Access Control (RBAC)**, Data Encryption, VAPT Security Remediation

AI & LLM Integrations
– Agentic Frameworks: **Model Context Protocol (MCP)**, **LangGraph**, LangChain, FastMCP, Server-Sent Events
– Model APIs & Tools: **OpenAI API**, **Anthropic (Claude) API**, Google Gemini API, Chainlit, OpenAI Fine-Tuning

Web & Full-Stack Exposure
– Web Frameworks: **Next.js**, **React 18**, TypeScript, HTML5/CSS3, Tailwind CSS, Supabase, Angular
– Client State & Data: TanStack Query, React Query, REST/GraphQL Integration, Client State Management

Observability & Tools
– Monitoring & Reliability: **AWS CloudWatch**, Azure Application Insights, Datadog (Bridge), Sentry, Tracing
– Tools & Leadership: **Git**, npm/pnpm, Postman, Linux Administration, Agile/Scrum, Technical Leadership

Experience

Event-Driven Microservices & Cloud Platform Infrastructure Dec 2022 – Sep 2023
Backend & DevOps Team Lead, BitsPro *Karachi, Pakistan*

- Led a 4-person backend team building an event-driven microservices warehouse management system (Node.js, TypeScript, NATS Streaming) for a large logistics operator, publishing shared npm service libraries.
- Architected and operated a containerized microservices platform on AWS EKS and ECS running on Fargate behind load balancers, deploying independently-scalable services over an asynchronous NATS event bus.
- Owned the data-warehousing layer for warehouse inventory search across 3 fulfillment centers, migrating from Amazon Redshift to ClickHouse to cut infrastructure cost while preserving fast columnar queries.
- Delivered a B2B SaaS operations suite featuring multi-warehouse zone management, per-resource role-based access control (RBAC), and compliance-grade cycle-count auditing with timestamped history.

Distributed Platform Operations & Production AI Infrastructure Jun 2024 – Present
Technical Operations Lead, Sehat Kahani *Karachi, Pakistan*

- Built an MCP (Model Context Protocol) server exposing Sehat Kahani's production Azure MySQL database as LLM-callable tools via Python FastMCP, adding a Chainlit conversational interface for data management.
- Led a cross-cloud migration to AWS Elastic Beanstalk for a live telemedicine platform, operating Azure and AWS in parallel across blob storage, Cognito auth triggers, and application monitoring.
- Drove third-party penetration-test remediation (VAPT) across three production product lines handling protected patient data, alongside Redis caching and multi-tenant schema evolution over 139 DB migrations.

Cloud Infrastructure Optimization & Real-Time Backend Systems Mar 2021 – Dec 2022
Full Stack Developer → Development Team Lead, Zetsol Technologies Hyderabad, Pakistan

- Redesigned a national telemedicine platform's Azure infrastructure around Application Gateway, App Services, and Azure Functions, cutting monthly cloud spend from ∼$12,000 to ∼$1,500—an ∼88% reduction.
- Built the real-time video and audio consultation engine for a telemedicine platform using WebRTC (OpenTok) on a Koa2/TypeScript backend with MySQL, plus PubNub-backed realtime chat and push notifications.
- Built and owned CI/CD for a production healthcare platform, automating lint, test, and deploy stages across five environments spanning three separate product lines on a shared monorepo codebase.

Education

MS in Software Engineering 07/2022 – Present
Sindh Agriculture University, Hyderabad, Pakistan

Bachelor of Information Technology (BSIT) 2017 – 2021
Sindh Agriculture University, Tando Jam, Pakistan

Selected Freelance & Contract Projects

- **Founder & Technical Lead, Codenetic:** Earned $200K+ in revenue delivering client software end to end across 300+ applications built and 70+ published to the Apple App Store and Google Play.
- **Myaigi Multi-Agent LLM Platform:** Architected a 7-agent AI platform on LangChain and LangGraph across Claude, OpenAI, and Gemini backends, streaming generated content via SSE over Pinecone vector memory.
- **PSX Model Context Protocol Server:** Contributed to an open-source Model Context Protocol (MCP) server for financial market data, fixing production issues and publishing updates to PyPI and the MCP Registry.

Authorized to work in the United States