Majid Ali

Data Engineer | ClickHouse & Data Warehousing | SQL, Python, Event-Driven Pipelines

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Karachi, Pakistan (Open to Relocation to Lahore / Remote)

Summary

Data Engineer with 5+ years building and operating production data infrastructure across AWS and Azure, anchored by real ClickHouse and cost-optimization ownership. Migrated a production warehouse from Amazon Redshift to ClickHouse to cut infrastructure cost at scale while preserving fast columnar queries, and independently redesigned a national telemedicine platform's Azure architecture to cut monthly cloud spend ∼88% ($12,000 to $1,500). Owns data modeling and schema evolution across MySQL, PostgreSQL, and MongoDB – including a 139-migration multi-tenant schema – and ships event-driven pipelines with automated quality gates in CI/CD. Writes Python tooling against production data stores, including an MCP server exposing a live database as callable tools. Founded a consultancy earning $200K+ across 300+ applications built and 70+ published.

Technical Skills

Data Warehousing & Analytics
– **ClickHouse**, Amazon Redshift – columnar OLAP, data warehouse design & migration
– SQL, data modeling, schema design – MySQL/Sequelize, PostgreSQL, multi-tenant schemas
– BI & self-serve analytics – operational reporting dashboards (Chart.js, Recharts)
– Data governance – RBAC access control, compliance-grade audit logging, data quality checks

Pipelines & Automation
– Event-driven data pipelines – NATS Streaming event bus, Server-Sent Events streaming
– ETL/ELT – warehouse migration, cross-source data integration, DBs + third-party APIs
– CI/CD automation – GitHub Actions, GitLab CI, multi-environment release pipelines with automated quality gates

Cloud & Infrastructure
– **AWS** (EC2, Lambda, S3, Cognito, Elastic Beanstalk, EKS/ECS/Fargate) – multi-cloud operation
– **Azure** (App Services, Functions, App Gateway) – cloud cost optimization, FinOps

Data Stores & Languages
– Redis, MongoDB, Cassandra – caching, NoSQL, durable session state
– **Python** – MCP server development, data tooling, automation scripting

Languages & Practices
– TypeScript, JavaScript, Node.js – backend services, REST API design
– Independent delivery – solo-built systems, founder ownership, startup velocity

Experience

Cloud Data Infrastructure & Platform Operations Jun 2024 – Present
Technical Operations Lead, Sehat Kahani

- Led a live telemedicine platform's cross-cloud migration to AWS Elastic Beanstalk, operating Azure and AWS in parallel across blob storage, Cognito authentication, and application monitoring
- Drove multi-tenant schema evolution across three production product lines of a patient-data platform handling protected data, alongside Redis caching and a 139-migration evolving database schema
- Built a Python MCP (Model Context Protocol) server exposing a production Azure MySQL database as callable tools for schema introspection, querying, and management, with a natural-language interface

Enterprise Data Integration & Multi-Source Delivery Sep 2023 – Jun 2024
Senior Project Manager, Zetsol Technologies

- Coordinated enterprise data integrations with major banking, insurance, and telecom partners onto a multi-tenant healthcare platform, each as a white-labeled deployment with its own environment stack

Data Warehousing & Event-Driven Pipelines Dec 2022 – Sep 2023
Backend & DevOps Team Lead, BitsPro

- Owned the data-warehousing layer for inventory search across 3 fulfillment centers, migrating from Amazon Redshift to ClickHouse to cut infrastructure cost at scale while preserving fast columnar queries

- Led a 4-person backend team building an event-driven microservices platform on Node.js and TypeScript, with independently-deployable services communicating over a NATS Streaming event bus in production
- Delivered a B2B SaaS operations suite with per-resource role-based access control and compliance-grade cycle-count auditing with full timestamped history, for a heavily regulated logistics industry
- Architected and operated a containerized microservices platform on AWS EKS (Kubernetes) and ECS running on Fargate behind load balancers, with independently-deployable services over an event bus

Data Modeling, Automation & Cloud Cost Optimization Mar 2021 – Dec 2022
Full Stack Developer → Development Team Lead, Zetsol Technologies

- 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 on a Koa2/TypeScript backend with MySQL and Sequelize migrations, plus PubNub-backed realtime chat and 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
- Built the internal Angular operations console used to run a national telemedicine platform, covering doctor and clinic management, corporate account administration, and operational reporting dashboards

Education

MS in Software Engineering — Jul 2022 – Present
Sindh Agriculture University, Hyderabad, Pakistan

Artificial Intelligence Specialization — 2020 – 2021
Isra University, Hyderabad, Pakistan

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

Selected Freelance & Contract Projects

- **Founder, Codenetic:** Founded and run a software consultancy delivering client products, earning $200K+ in revenue across 300+ applications built and 70+ published to the Apple App Store and Google Play
- **Gold Minds:** Architected a financial simulation engine — virtual currency, savings accounts, a conditional rule engine, and loan amortization — behind a service layer across 16 production modules
- **Myaigi:** Designed a real-time pipeline streaming AI-generated content to a mobile client over Server-Sent Events, backed by Cassandra for durable multi-session state and Pinecone vector memory
- **Baba Telehealth:** Designed and deployed a Node.js/Express and MongoDB backend on AWS EC2 under PM2 process management, integrating Twilio Video consultations, Socket.io realtime chat, and Stripe payments
- **Gold Minds:** Led development of a financial-literacy SaaS platform (React/TypeScript, Supabase/PostgreSQL, Docker/Fly.io) serving 2,000+ students across role-scoped admin, teacher, and student dashboards
- **PSX MCP Server:** Contributed to an open-source Python MCP server integrating Pakistan Stock Exchange market data from public APIs and web sources, exposing stock-market queries as LLM-callable tools