Majid Ali

Senior MERN Stack Engineer | Microservices Architecture & System Design | Node.js & React

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Karachi, Pakistan (Immediate Joiner | Open to Relocation to Lahore / On-site)

Summary

Senior MERN Stack Engineer and System Architect with 5+ years designing distributed systems, event-driven microservices, and high-concurrency Node.js and React platforms. Led backend microservices on AWS EKS (Kubernetes) and ECS with NATS Streaming message buses, cutting cloud infrastructure spend ∼88% ($12,000 to $1,500/month) and migrating high-throughput databases. Built production React frontends, Express/Koa2 APIs, and MongoDB/SQL datastores across healthcare, logistics, and edtech platforms. Immediate joiner ready to relocate on-site to Lahore.

Technical Skills

MERN Core & Frontend Engineering
– **Node.js**, **Express.js**, **React.js**, **MongoDB**, TypeScript, JavaScript (ES6+), Koa2, RESTful APIs
– Frontend architecture: **Redux Toolkit**, React Query (TanStack Query), Next.js, Context API, Hooks
– Modern UI: Tailwind CSS, Material-UI, responsive SPAs, Webpack, Vite, component modularity
– API contracts, schema validation (Zod, Yup), JWT authentication, OAuth 2.0, CORS, session management

Microservices Architecture & System Design
– **Microservices Architecture**, domain-driven design (DDD), service decomposition, API Gateway
– Event-driven architecture: **NATS Streaming**, message buses, pub/sub messaging, WebSockets, Socket.io
– Distributed system design: distributed caching, rate limiting, connection pooling, idempotency

Databases & Storage Systems
– **MongoDB** (Mongoose, aggregation pipelines, replica sets, indexing), **PostgreSQL**, MySQL, Redis
– Database migration, schema optimization, sharding, transaction isolation, ORMs (Prisma, Sequelize)

Cloud, Containers & DevOps
– **AWS** (EKS/ECS Fargate, Elastic Beanstalk, S3, EC2, Lambda, Cognito), **Docker**, **Kubernetes**
– CI/CD pipelines (GitHub Actions, GitLab CI), load balancing, reverse proxies (Nginx), PM2

Reliability & Enterprise Scalability
– Distributed reliability: horizontal scaling, fault tolerance, circuit breakers, dead-letter queues
– Observability: centralized logging, Application Insights, Sentry crash reporting, health checks

Experience

Sehat Kahani Jun 2024 – present
Development Lead (Backend & Platform Systems) *Karachi, Pakistan*

- Lead backend system architecture and reliability for a national healthcare platform serving 5M+ users, managing high-throughput Node.js microservices and multi-tenant patient databases
- Architected distributed caching with Redis and optimized MySQL database operations across 130+ migrations, maintaining sub-second API response latencies during peak consultation surges
- Led platform migration to AWS Elastic Beanstalk, coordinating multi-cloud infrastructure across AWS and Azure with zero service disruption to 61 physical clinics and nationwide mobile users
- Built an automated Model Context Protocol (MCP) server exposing relational databases as LLM-callable tools behind natural-language chat interfaces, streamlining internal system operations

Zetsol Technologies Sep 2023 – Jun 2024
Senior Software Engineer *Hyderabad, Pakistan*

- Directed engineering delivery and microservices architecture for client systems across healthtech and fintech, coordinating 35+ engineers across Agile sprints and technical architecture reviews
- Coordinated enterprise API integrations with major banking, insurance, and telecom partners onto a multi-tenant platform, enforcing strict service isolation and high-availability data contracts

· Led technical delivery taking a flagship healthcare platform into international markets (UAE), architecting localized database partitioning, multi-region routing, and compliance-grade APIs

BitsPro Dec 2022 – Sep 2023
Senior Backend & Microservices Lead *Karachi, Pakistan*

· Led a 4-person backend team building an event-driven microservices warehouse system (Node.js, TypeScript, NATS Streaming), publishing versioned shared entity and service libraries to npm

· Architected containerized microservices fleet on AWS EKS (Kubernetes) and ECS on Fargate behind load balancers, decoupling monolithic inventory operations into independently deployable services

· Redesigned the analytics data storage layer for inventory search across 3 fulfillment centers, migrating from Amazon Redshift to ClickHouse to slash query infrastructure cost while preserving speed

Zetsol Technologies Mar 2021 – Dec 2022
Full Stack Developer → Development Team Lead *Hyderabad, Pakistan*

· Built real-time audio and video consultation microservices using WebRTC on a Node.js/Koa2 backend with MySQL and PubNub, streaming live low-latency consultations to nationwide web and mobile clients

· Re-architected cloud infrastructure on Azure (App Gateway, App Services, Functions), slashing monthly infrastructure spend ∼88% from $12,000 to $1,500 with zero downtime

· Promoted to Development Team Lead within 12 months, building end-to-end CI/CD deployment pipelines across five environments and developing a modular operations CRM console

Education

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

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

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

Selected Freelance & Contract Projects

- **Founder & Principal Engineer, Codenetic:** Delivered client products end to end, earning $200K+ across 300+ applications built and 70+ published with full-stack Node.js/React architectures
- **Gold Minds (Production React SaaS):** Shipped a role-based SaaS platform (React 18, TypeScript, Supabase/PostgreSQL) serving 2,000+ students with 3 distinct dashboards and sub-second querying
- **Myaigi (Distributed Streaming Backend):** Architected a multi-agent system on Node.js/Express with LangGraph, Server-Sent Events (SSE) streaming, Pinecone vector storage, and Cassandra durable state
- **Baba Telehealth (System Design & Integration):** Designed and delivered an integrated clinical EMR and video consultation system on a 14-week contract, merging online queuing with clinic workflows
- **Helio Wallet (Decentralized Systems Backend):** Engineered a high-security Web3 crypto wallet backend with Node.js, Express, and MongoDB/PostgreSQL, managing cryptographic transaction verification
- **Leafgistics B2B SaaS (Compliance & Multi-Tenancy):** Built a multi-tenant B2B operations platform with granular role-based access control (RBAC) and compliance audit logging for multi-site logistics operations