HAMID RAZA
Lead Software Engineer

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Professional Summary

Lead Software Engineer with 10+ years of experience architecting scalable IoT, real-time data processing, and AI-powered solutions. Proven track record of delivering resilient full-stack systems that boost operational efficiency through microservices architecture, cloud infrastructure, and modern technology stacks. Expert in translating complex business requirements into high-impact technical solutions while mentoring engineering teams.

Technical Expertise

Languages	TypeScript JavaScript Python SQL
Frontend	React Next.js Svelte
Backend	Node.js NestJS Express.js tRPC GraphQL
Data & Streaming	Kafka MQTT PostgreSQL MongoDB Redis Cassandra RabbitMQ
Cloud & DevOps	AWS Kubernetes Docker Pulumi Helm CI/CD Grafana Prometheus
AI/ML	LLM Integration Context Management Vector DBs MCP Servers

Professional Experience

Lead Software Engineer — Sep 2024 – Present
Operanex — *Brussels, Belgium*

- Architected next-generation IoT platform achieving **10x faster data transfer** and processing **1M+ data points/hour** from field devices via Kafka and MQTT infrastructure
- Integrated LLM services for natural language queries over fleet data, **boosting operator decision-making speed by 35%**
- Mentored 4 engineers and standardized CI/CD pipelines, **increasing deployment velocity by 25%**
- Drove architectural governance fostering collaboration for scalable analytics in logistics and fleet management

Tech Lead — Jan 2022 – Sep 2024
glasc.io — *Johannesburg, South Africa*

- Directed technical roadmap for 2 SaaS products maintaining **99.9% uptime** for mission-critical services
- Migrated monolith to Kubernetes microservices, **reducing deployment time by 50%** and improving resilience
- Partnered with Product Owner to **accelerate feature delivery by 20%** for fleet tracking and weight analytics
- Led cross-functional teams implementing best practices via code reviews and architectural design sessions

Senior Software Engineer — Oct 2019 – Dec 2021
glasc.io — *Johannesburg, South Africa*

- Built full-stack features supporting **10,000+ active users** with robust real-time fleet management
- Optimized database queries **reducing API response time by 30%** during peak loads
- Developed weight/position event detection algorithms and anti-theft mechanisms for fleet security
- Optimized frontend for large telemetry data handling; mentored juniors **decreasing defects by 15%**

Senior Software Engineer — Apr 2019 – Oct 2019
aiSight.ai (formerly SurveyAuto) — *Lahore, Pakistan*

- Contributed to SaaS analytics platform serving FMCG companies with AI-powered market insights
- Implemented scalable backend ensuring secure data exchange for global retail clients
- Built real-time dashboards for field force analytics serving **500+ enterprise clients**

Full Stack Engineer   Apr 2018 – May 2019
Graana.com   *Islamabad, Pakistan*

- Designed full-stack components for Pakistan's leading real estate platform ensuring seamless UX
- Built property listing management system handling **50,000+ active listings** with advanced search
- Integrated third-party APIs; optimized performance **improving page load by 40%**

Backend Developer   Sep 2017 – Mar 2018
Cloud Rangers   *Letterkenny, Ireland*

- Designed RESTful APIs for cloud management, ensuring secure service communication
- Developed automation scripts **reducing manual operations workload by 40%**

Backend Developer   Jun 2015 – Aug 2017
uExel   *Islamabad, Pakistan*

- Managed full development lifecycle supporting **5,000+ daily API requests**
- Designed RESTful APIs facilitating seamless frontend-backend communication

Featured Projects

Kimax Digital – Real-Time Mining IoT Platform

- Architected high-throughput data pipeline for mining telemetry; implemented geofencing **cutting unauthorized access by 90%**
- Built real-time visualization dashboards processing equipment data from remote mining sites
- *Tech: Svelte, Shadcn, D3.js, tRPC, Kafka, MQTT, PostgreSQL, Redis, Kubernetes*

Turing Insights – Real-Time Fleet Tracking & Analytics

- Developed real-time tracking & monitoring platform with AI-generated insights for optimized payload delivery
- Implemented analytics, events & alerts for vehicles weight & location, **detecting more than 95% payload theft incidents**
- *Tech: React, Ant Design, Leaflet, Recharts, Nest.js, Python, Kafka, Redis, RabbitMQ, PostgreSQL*

Menar – High-Security Access Control System

- Designed centralized authorization system handling **5,000+ daily access requests** for mines and logistics
- Implemented role-based access control with audit logging for compliance requirements
- *Tech: Next.js, NestJS, PostgreSQL, Redis, RabbitMQ, Docker*

Leza – SaaS Authentication Platform

- Created robust authentication/authorization SaaS platform supporting multi-tenant architecture
- Implemented OAuth 2.0, SSO, and MFA for enterprise-grade security across multiple platforms
- *Tech: React, Express.js, PostgreSQL, MongoDB, Redis*

SurveyAuto – Field Force Analytics Platform

- Built comprehensive field force management system for FMCG market research with real-time GPS tracking
- Developed AI-powered image recognition for shelf auditing, **improving audit accuracy by 45%**
- *Tech: React, Node.js, Express.js, MongoDB*

Graana.com – Real Estate Marketplace Platform

- Developed core features for Pakistan's one of the largest real estate platforms serving **100K+ monthly users**
- Built advanced property search with geolocation filtering and personalized recommendations
- *Tech: React, Node.js, Express.js, PostgreSQL*

Education

BS Software Engineering   2011 – 2015
University of Engineering and Technology   *Taxila, Pakistan*

Languages

English (Professional Proficiency) | **Urdu** (Native Speaker)