MD Akram

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Education

KPR Institute of Engineering and Technology   Jul 2022 – Present
B.E. in Civil Engineering, CGPA: 8.7/10.0   *Coimbatore, Tamil Nadu*
– **Relevant Coursework**: **Distributed Systems**, **Database Management**, **Computer Networks**, **Machine Learning**

Experience

Innomatics Research Labs   Jan 2025 – Mar 2025
Full Stack Developer Intern   *Hyderabad, Telangana*
– Architected **SwasthScript**, a healthcare marketplace serving **10K+ users** with **microservices architecture** and **Redis caching**.
– Optimized **payment processing** with Razorpay integration, achieving **99.8% success rate** and reducing transaction latency by **65%**.
– Implemented **horizontal scaling** with Docker containers and load balancing, supporting **1000+ concurrent users**.

Kathmandu Metropolitan City Office   Jan 2024 – Feb 2024
e-Governance Tech Intern   *Kathmandu, Nepal*
– Enhanced e-governance portal serving **50K+ citizens** with **AES-256 encryption** and **rate limiting**, reducing security incidents by **90%**.
– Built AutoCAD-integrated permit system with **REST APIs**, processing **500+ applications daily** with **99.5% uptime**.

Projects

FlipMart E-commerce Platform | *React, Node.js, MongoDB, Redis, Docker*
– Developed full-stack e-commerce platform with **real-time inventory management**, serving **5K+ products** across **20+ categories**.
– Implemented **recommendation engine** using collaborative filtering, increasing user engagement by **45%** and average order value by **30%**.
– Optimized search functionality with **Elasticsearch**, reducing query response time from **800ms to 120ms** for **1M+ products**.
– Built **seller dashboard** with analytics, order management, and inventory tracking, onboarding **200+ vendors**.

LogiTrack Supply Chain Analytics | *Python, FastAPI, PostgreSQL, Apache Kafka*
– Built real-time logistics platform processing **10K+ shipment events/hour** with **Apache Kafka** and **event-driven architecture**.
– Developed ML-powered demand forecasting model achieving **87% accuracy**, reducing inventory costs by **$50K+ annually**.
– Created dynamic route optimization algorithm reducing delivery time by **25%** and fuel costs by **20%** across **100+ routes**.

ScaleChat Messaging System | *Node.js, Socket.io, Redis Cluster, MongoDB*
– Architected distributed chat system supporting **50K+ concurrent users** with **WebSocket connections** and **horizontal scaling**.

– Implemented **message queuing** with Redis Pub/Sub, achieving **99.9% message delivery** and **sub-100ms latency**.
– Built auto-scaling infrastructure with Docker Swarm, handling **10x traffic spikes** without service degradation.

Technical Skills

Languages: **C++**, **Python**, **JavaScript**, **MySQL**
Backend: **Node.js**, **Express.js**, **FastAPI**,**Microservices**
Frontend: **React**, **Next.js**, **Redux**, **Tailwind CSS**, **Material-UI**
Databases: **MongoDB**, **PostgreSQL**, **Redis**, **Elasticsearch**, **MySQL**
Cloud & DevOps: **AWS**, **Docker**, **Kubernetes**, **Jenkins**, **Nginx**, **Apache Kafka**

Achievements

– Ranked **Top 2** on **GeeksforGeeks** (Institution) with **953+ coding score** and **350+ problems solved** (LINK).
– Completed **GfG 160-Day Problem Solving Challenge** with Summer Workshops (LINK).
– Won **Best Innovation Award** at **INNOVSENSE'24 Hackathon** for innovative solution design.
– Achieved **Top 20** in GDG on-campus coding competition at JS College of Engineering.
– Selected among **Top 50** participants in **Smart India Hackathon 2024** for scalable fintech solution.
– Solved **250+** problems on **LeetCode**, focusing on algorithms, data structures.