Mohammed Fahad

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SUMMARY

Dedicated and results-oriented Software Engineer with over 6+ years of experience in backend development, specializing in system architecture, scalable solutions, and project management. Proficient in leading and executing complex projects with a focus on innovative use of technologies such as **NodeJS**, **TypeScript**, **and AWS**. Demonstrated success in improving systems through meticulous development and strategic enhancements, particularly in secure, high-demand environments. Actively seeking opportunities to leverage expertise in tech leadership and hands-on development to drive business efficiency and innovation.

PROFESSIONAL EXPERIENCE

CodeVyasa (Client: QNu Labs)

Senior Software Development Engineer | Bangalore, India | May 2024 - Present

Technology Stack: NodeJS, TypeScript (NestJS), MongoDB, Kibana, Postgres, Docker, Redis,

Kafka, Prisma, ElasticSearch, GitLab

- Led a 7-member team to architect and build the backend for India's first Quantum Key Distribution Network (QKDN) for defense applications.
- Designed secure multi-level access management (5 roles), node/link management, device configuration workflows, and 50+ event-handling capabilities.
- Developed backend using TypeScript (NestJS), PostgreSQL (Prisma), Redis, Elasticsearch/Kibana, and Kafka for secure node communication.
- Delivered a fully **on-premise**, **intranet-only** deployment using **VMs** and **Docker**, meeting strict defense security requirements.
- Currently leading the development of a highly available Kubernetes-based QKDN
 ecosystem with automated failover, HAProxy load balancing, Longhorn storage, Flannel
 networking, and Prometheus/Grafana monitoring.
- Building MCARP, a QKDN experiment platform enabling custom algorithm execution, experiment orchestration, and analytics across distributed Bob/Alice nodes.

Kenko Health

SDE 2 | Bangalore, India | January 2022 - August 2023

Technology Stack: NodeJS, AWS (EC2, S3, ElasticCache), TypeScript (Ts.Ed and NestJS), MongoDB, Python (scripting), Prisma, ElasticSearch, CRM (Hubspot), GitHub, Kafka

- Spearheaded the migration from **monolithic** to **microservice** architecture, enhancing scalability, efficiency, agility, **fault isolation**, deployment frequency, and system availability.
- Designed and implemented HR portal microservices for **B2B clients**, processing over 10K records at a time with robust retries, **audit logs**, and fallbacks.

- Developed a versatile payment module incorporating multiple payment gateways such as JusPay and Razorpay, managing over 1k+ transactions daily with robust retries and audit logs.
- Facilitated over **5K+ API** calls between backend systems and CRM (Hubspot) for seamless data synchronization.

Intugine Technologies Pvt Ltd

Software Engineer | Bangalore, India | July 2019 - January 2022

Technology Stack: NodeJS, AWS (EC2, S3, ElasticCache, MQ, Batch, Lambda, ECS, ECR, CodeCommit, CodePipeline, CodeBuild, CodeDeploy, Step Functions, SQS, SNS, CloudWatch), JavaScript (ExpressJS), TypeScript (Ts.Ed), MongoDB, Python (scripting)

- Led the development of India's top Transportation Management System (TMS) for parcel solutions, serving 75+ clients.
- Created a highly efficient shipment tracking engine from scratch, managing the daily tracking of 100K+ shipments.
- Reduced ticket resolution time by 60% and decreased ticket volume by 80%, through the development of a Control Tower.

SKILLS

Languages: TypeScript, JavaScript, Python

Frameworks and Libraries: NestJS, ExpressJS, Ts.Ed, WebSockets

Databases: MongoDB, PostgreSQL, Redis, Prisma

Cloud Services: AWS (EC2, S3, ElasticCache, Lambda, ECS, ECR, SQS, SNS, CloudWatch)

DevOps and Tools: Docker, GitLab, GitHub, Kafka, Kibana, ElasticSearch

Payment Services: Razorpay, JusPay

EDUCATION

Birla Institute of Technology

MTech (Software Systems) Work Integrated Learning Programmes (WILP) | Bangalore, India | 2021-2023

Vemana Institute Of Technology

BE (Information Science and Engineering) | Bangalore, India | 2015-2019

CERTIFICATES AND COURSES

- MongoDB University: MongoDB Node.js Developer Path, 2023
- MongoDB University: MongoDB Aggregation with Node.js, 2023
- Udemy: Fundamentals of Backend Engineering, 2023
- Udemy: NestJS Zero to Hero Modern TypeScript Back-end Development, 2023