

Mohammed Fahad
SDE 2 - Backend Developer
Bangalore, India 560045 | mhdafahad18@gmail.com | +918904171848
LinkedIn: <https://www.linkedin.com/in/meetmhdafahad/>
GitHub: <https://github.com/modfahad/>
Portfolio: <https://modfahad.github.io/portfolio/>

SUMMARY

Dedicated and results-oriented Software Engineer with over 5 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 team of 4 members** to architect and develop the backend for Quantum Key Distribution Networks (QDKN), the first of its kind, primarily for defense applications.
- Architected and developed a full-scale application for managing systems such as **multi-level user access management, nodes, links, and service links (Apps)** in a high-security environment, incorporating 5 levels of role control, analytics, device configuration, and handling over 50 event types.
- Utilized TypeScript with NestJS for backend development, Postgres with Prisma for database management, ElasticSearch and Kibana for logging, Redis for caching, and Kafka for secure node communication.
- Deployed an **on-premise solution using VMs and Docker containers**, operating entirely within an intranet to meet defense sector security requirements.

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.
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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