

ASHIK MOHAMMAD S

Backend / Full-Stack Engineer — Node.js — Next.js — AI Systems — Scalable Platforms

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Professional Summary

Full-Stack Engineer with **2 years of hands-on development experience**, including 1 year of professional industry experience and 1 year of intensive full-stack internship training. Experienced in building scalable web platforms and real-time systems using Node.js, Next.js, and the MERN stack. Contributed to a production marketplace platform supporting **100K+ users**. Skilled in backend API design, database optimization, Redis caching, and cloud deployment using AWS, Docker, and CI/CD pipelines. Currently developing an **AI Agent Runtime Platform** integrating LLM orchestration, RAG pipelines, and workflow automation.

Technical Skills

Frontend: React, Next.js, React Native, Redux Toolkit, Zustand, JavaScript (ES6+), TypeScript, HTML5, CSS3, Tailwind CSS

Backend: Node.js, Express.js, REST APIs, GraphQL, JWT Authentication, MVC Architecture, Clean Architecture, Bull Queue, Background Job Processing

Databases & Caching: MongoDB, MySQL, Redis, Multi-Database Architecture, Query Optimization

Cloud & DevOps: AWS (EC2, S3), Docker, Nginx, PM2, VPS Deployment, GitHub Actions (CI/CD), Load Balancing, Horizontal Scaling, Node.js Clustering

Real-Time Systems: WebSockets, Socket.IO, WebRTC

Tools & Practices: Git, GitHub, Postman, Jest, Agile/Scrum, Clean Code, Performance Optimization

Professional Experience

Full-Stack Developer

January 2025 – March 2026

Digitel — (Calicut Cyber Park)

- Engineered and owned scalable full-stack features for a freelancer marketplace platform serving **100K+ users**, taking end-to-end technical ownership from API design to production deployment using React, Next.js, Node.js, Express, and MongoDB.
- Optimized backend APIs and database queries under high-traffic workloads, identifying bottlenecks and driving performance improvements, establishing patterns adopted across the broader codebase.
- Conducted peer code reviews, enforced clean architecture standards, and mentored junior developers on backend best practices, MVC structure, and scalable system design principles.

- Owned production infrastructure and CI/CD pipelines using AWS, Docker, Nginx, PM2, and GitHub Actions ensuring deployment reliability, zero-downtime releases, and system observability across environments.

Additional Experience

Full-Stack Developer Intern

2023 – 2024

Brototype — Full-Stack Development Bootcamp

- Completed an intensive MERN stack development program focused on full-stack system design and application development.
- Built multiple end-to-end applications integrating frontend interfaces, backend APIs, and database systems.
- Worked in collaborative development teams following Agile workflows and Clean Architecture principles.

Projects

Projects

XYRA Workplace – AI Workforce SaaS Platform

[GitHub](#) [Project Doc](#)

- Building a **multi-tenant AI workforce platform** that enables businesses to create, deploy, and manage AI agents for sales, support, analytics, and workflow automation.
- Developed a **distributed AI execution runtime** using BullMQ, Redis, and stateless workers for scalable, fault-tolerant workflow processing.
- Designed a **workflow orchestration engine** supporting triggers, approvals, retries, delays, and parallel execution for enterprise automation flows.
- Built a **secure tool execution system** with permission controls, distributed locking, and integrations with Stripe, HubSpot, Gmail, WhatsApp, and Google Calendar.
- Integrated **RAG pipelines and operational memory** using pgvector to enable context-aware and scalable AI agent execution.
- Implemented **observability and monitoring features** including execution tracing, workflow visualization, and session replay for debugging and audit tracking.

Freelancer Marketplace Platform

Production — Private

- Contributed to development of a large-scale freelancer marketplace platform supporting **100K+ users**.
- Developed scalable backend APIs using Node.js, Express, MongoDB, and MySQL.
- Designed **multi-database architecture** for high-concurrency operations.
- Supported production deployment using Docker, Nginx load balancing, and CI/CD pipelines.

Real-Time Sales Tracking & Lead Management System

[GitHub](#)

- Built a real-time sales tracking platform enabling live lead distribution and activity monitoring.
- Implemented event-driven updates using Socket.IO for real-time dashboards.
- Designed audit logging system to track sales activities and ensure accountability.
- Implemented Redis and **Bull Queue** for background job processing and asynchronous task handling.

Education

B.Tech in Computer Science & Engineering

2019 – 2023

APJ Abdul Kalam Technological University