ALI AFTHAB

Full-Stack Engineer | Backend & Distributed Systems

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PROFESSIONAL SUMMARY

Full-Stack Software Engineer with 5 years of experience designing and shipping scalable, multi-tenant SaaS platforms and high-volume, event-driven backend systems. Expert in Node.js, TypeScript, Bun and microservices architecture, with deep hands-on experience in message queues (BullMQ, Redis Streams), real-time communication (Socket.IO, WebSockets), and MongoDB/PostgreSQL data modeling. Built an API Gateway-based WhatsApp Business CRM integrating the Meta WhatsApp Cloud API, Shopify and Magento, with React web and React Native mobile clients. Strong record of end-to-end ownership, performance optimization, system design, code reviews and mentoring engineers in Agile teams.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Java, Python, Go (Golang), Rust, PHP, SQL
Backend: Node.js, Bun, Express.js, Fastify, NestJS, Spring Boot, Laravel, REST APIs, Socket.IO, WebSockets, JWT, OAuth 2.0, RBAC
Frontend & Mobile: React, Next.js, Vue.js, Nuxt.js, Redux Toolkit, Zustand, Tailwind CSS, shadcn/ui, Vite, React Native, Expo
Databases & Caching: MongoDB (Mongoose), PostgreSQL, MySQL, Redis, SQLite, Prisma, Drizzle ORM, query optimization, indexing
Messaging & Queues: BullMQ, Bull, Redis Streams, Redis Pub/Sub, asynchronous job processing, cron scheduling, webhooks
Cloud & DevOps: AWS (Lambda, ECS, S3), Docker, Docker Compose, CI/CD pipelines, Nginx, Linux (Ubuntu), Prometheus monitoring
Architecture: Microservices, API Gateway, Event-Driven Architecture, Multi-Tenant SaaS (database-per-tenant), Modular Monolith, Distributed Systems, System Design
Testing & Practices: Unit & integration testing (Node.js test runner, Bun test), Git, Code Reviews, Agile/Scrum, Performance Optimization, Security best practices
AI Tools: Claude Code, ChatGPT, GitHub Copilot (AI-assisted development, debugging, code review, workflow automation)

WORK EXPERIENCE

Ginger Technologies - Full-Stack Engineer Jun 2025 - Present

- Architected and built a multi-tenant WhatsApp Business CRM (SaaS) serving 30+ client businesses and thousands of users, with database-per-tenant MongoDB isolation and tenant-scoped role-based access control (RBAC).
- Decomposed the CRM into Bun/TypeScript microservices (API Gateway, messages, campaigns, webhooks) behind a single API Gateway handling JWT verification, tenant context propagation and request proxying.
- Designed an event-driven message pipeline: Meta WhatsApp Cloud API webhooks queued with BullMQ, processed by workers, persisted to MongoDB, and broadcast via Redis Streams and Socket.IO for real-time inbox updates.
- Built bulk campaign and drip-scheduling services with BullMQ workers, plus cron jobs for scheduled messages, chat escalation, follow-ups and review requests.
- Developed e-commerce connectors for Shopify (React Router, Prisma, webhooks) and Magento 2 (PHP module) to sync orders, carts, customers and products into the CRM for automated customer messaging.
- Built the platform admin dashboard (React, TypeScript, shadcn/ui) for tenants, subscription plans, billing, usage ledger and permissions, and contributed to a React Native (Expo) mobile inbox with offline sync.
- Improved API throughput and latency by migrating a legacy Express.js monolith to a Fastify-based modular architecture; optimized the chat inbox with list virtualization and per-chat message caching.
- Added Prometheus metrics and automated tests for permissions and inbox logic; partnered with QA and product teams to ship reliable, production-ready releases.

Brixton Corporate and Media - Software Development Engineer (Contract) Feb 2025 - May 2025

- Led development of a restaurant Point of Sale (POS) platform with real-time sales analytics and scalable backend services.
- Designed RESTful APIs and backend services with Node.js and Laravel, optimizing PostgreSQL/MySQL queries and indexes for fast reporting.
- Owned the full SDLC - requirements, development, testing, deployment and performance tuning.

ASHCORP Technologies LLP - Software Development Engineer Apr 2024 - Feb 2025

- Built scalable backend services with NestJS and Bun.js on AWS infrastructure.
- Engineered multi-tenant platforms (Doctor Appointment, E-commerce, Recharge SaaS) using React, Next.js and Flutter, with secure multi-role authentication and real-time dashboards for 50+ organizations and 500+ daily users.
- Managed deployments for 10+ applications on Ubuntu/Nginx using Docker and CI/CD pipelines, and mentored junior developers through code reviews and technical guidance.

RootSys International - Software Development Engineer Jan 2022 - Apr 2024

- Developed multi-tenant SaaS platforms supporting 50+ organizations with secure authentication and real-time features.
- Implemented core modules including subscription billing, authentication/authorization and real-time notifications.
- Participated in Agile/Scrum sprints, code reviews and continuous improvement of system reliability.

KEY PROJECTS

EazyCRM - Multi-Tenant WhatsApp Business CRM Node.js, Bun, TypeScript, MongoDB, Redis

- Gateway-centric microservices platform for team inbox, bulk campaigns, WhatsApp Groups and e-commerce automation, with React web, React Native mobile and admin dashboard clients.
- Queue-based, fault-tolerant webhook ingestion (BullMQ) and tenant-scoped real-time delivery (Redis Streams, Socket.IO) where agents receive only their assigned chats.

Restaurant POS Platform Node.js, Laravel, PostgreSQL

- Scalable APIs and backend services powering real-time analytics, order management and operational workflows.

EDUCATION

Bachelor of Computer Applications (BCA) Jun 2024 - Present

Indira Gandhi National Open University (IGNOU)