
ACHAL DESAI

SENIOR BACKEND ENGINEER

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PROFESSIONAL SUMMARY

Senior Backend JavaScript Engineer with 6+ years of production experience building and operating scalable web applications using JavaScript and TypeScript across frontend and backend. Strong experience with architectures, Node.js microservices, REST APIs, and AWS cloud deployments. Proven ownership of systems end-to-end in startup and enterprise environments, including architecture, performance optimization, and production reliability. Comfortable collaborating with cross-functional teams and mentoring engineers in delivery-focused environments.

SKILLS / TECHNOLOGIES	
Languages	JavaScript / TypeScript (Node.js)
Backend	Express.js, REST API design, microservices, Authentication, validation, error handling, serverless framework, Jest, Datadog
Event-Driven	Kafka, SQS, AWS Lambda, Confluent, Pub-Sub
Databases	MongoDB, Relational DB fundamentals (PostgreSQL), MySQL, Firebase
Cloud & CI	AWS (Lambda, API Gateway, EKS, S3, CloudWatch), CI/CD (GitLab), Docker, IAC
Architecture	Service boundaries, async workflows, Observability (logging, metrics)

WORK HISTORY

Senior Software Engineer | LTIMindtree | Mumbai | Jan 2024 – Present

- **Scalable Architecture:** Architected and managed Node.js microservices for a high-concurrency system supporting **2M+ agents**, ensuring 99.9% uptime through optimized API contracts and horizontal scaling.
- **Event-Driven Systems:** Engineered serverless workflows using **AWS Lambda, SQS, and Kafka** to handle asynchronous data exchanges, improving system decoupling and fault tolerance for real-time analytics.
- **Performance Engineering:** Reduced end-to-end API latency by **20%** by optimizing MongoDB aggregation pipelines, implementing Redis caching, and refining data access patterns for high-volume operational data.
- **Production Excellence:** Owned the full CI/CD lifecycle using GitLab and AWS (EKS/CloudWatch), implementing automated monitoring and alerting that reduced production incident resolution time (MTTR) by 15%.
- **Technical Leadership:** Spearheaded cross-functional collaboration between Angular frontend and Backend teams to define robust RESTful schemas, enforcing strict code quality and release discipline across the microservices ecosystem.

Backend Engineer (Founding) | BharatCall – Neeks & Hanks Solutions | Jul 2020 – Dec 2023

- **o-to-1 Architecture & Scale:** Acted as the sole backend engineer to architect, build, and scale a D2C SaaS platform from inception to **50,000+ production users**, utilizing Node.js, Express, and MongoDB.
- **Complex API Integrations:** Engineered mission-critical REST APIs and seamlessly integrated third-party systems, including an **in-house SMPP SMS gateway**, WhatsApp Business API, Firebase in-app messaging, and major payment processors.
- **Full-Stack Product Delivery:** Accelerated product launch by developing end-to-end features, pairing high-throughput backend workflows with Angular-based dashboards for real-time e-commerce and campaign performance tracking.
- **DevOps & Infrastructure Ownership:** Independently managed all production deployments and system reliability, implementing comprehensive logging, monitoring, and automated pipelines to ensure high availability and rapid incident resolution.