

ADITYA SINGH

Hyderabad, Telangana, India

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Summary

Full-Stack Software Engineer with experience building and maintaining scalable backend services and modern web interfaces using Node.js, React, and Azure. Strong in end-to-end feature delivery, production reliability, and integrating GenAI-driven capabilities into real-world systems.

Skills

Languages: JavaScript, TypeScript, HTML, CSS, C/C++

Databases & Caching: MongoDB, MySQL, Redis

Frameworks & Libraries: ReactJS, NextJS, NodeJS, NestJS, ExpressJS

Tools & Cloud: Git/GitHub, JIRA, Postman, Jenkins, SonarQube, Sidekiq, AWS, Azure, GCP

Concepts: OOP, Operating Systems, System Design, Design Patterns, SDLC, GenAI, Data Structures, Agile, Scrum, Kanban

Experiences

EPAM Systems

April 2024 – Present

Software Engineer

Hyderabad, Telangana

- Worked with a Canada-based retail client to build an E-commerce product from scratch using NestJS, Azure, and NextJS, taking early designs to production.
- Refactored tightly coupled backend workflows into modular services and Azure Functions to improve stability during peak traffic and sales events.
- Integrated BigCommerce REST and GraphQL APIs to support order, cart, and checkout workflows with retry and partial failure handling.
- Built and hardened Azure Functions-based data ingestion pipelines for large CSV uploads using schema validation, controlled parallel processing, resilient bulk operations, and safe fallbacks.
- Improved runtime performance by moving blocking logic to Redis- and Sidekiq-backed background jobs and applying Redis caching on read-heavy endpoints.
- Established production observability through centralized logging and request tracing across multiple services, reducing time to diagnose issues.
- Modernized a large-scale enterprise news and information platform by migrating legacy React UI from v16 to v18, upgrading 40+ components, and enabling reliable releases via Jenkins and SonarQube.
- Handled on-call production support, including incident triage, root-cause analysis, and coordinated hotfix deployments with client teams.

Projects

AI Nexus Board ↗

- Designed a sub-30ms collaborative whiteboard using NextJS, Supabase, and Yjs to support conflict-free graph editing.
- Added a GPT-4-powered text-to-diagram feature that converts natural language into structured system architecture diagrams.
- Built a high-performance React Flow canvas with custom nodes, dynamic edges, and optimistic UI updates.
- Managed real-time state synchronization using ephemeral cursors with PostgreSQL-backed persistence.

Arch-Gen Visualizer ↗

- Created a Next.js app using GPT-4o to auto-generate code flowcharts, cutting documentation time by 90%.
- Engineered a deterministic JSON-to-Mermaid pipeline to guarantee valid diagram output.
- Designed a high-performance Material UI v5 interface with optimized SVG rendering.
- Applied a token-bucket rate limiter to control usage and prevent API cost overruns.

Achievements

- Azure Administrator Associate
- AWS Badge: Serverless

- Research Paper (AI/ML)
- GCP Badges: (Qwiklabs)

- AWS Solutions Architect Associate

Education

Vishwakarma Institute of Technology, Pune, B.Tech in Electronics

June 2019 – 2023

CGPA : 8.48, Courses: OOPs, Python, JavaScript, SQL, Machine Learning, ReactJS, Operating Systems Pune, Maharashtra