ADITYA SINGH

Hyderabad, Telangana, India

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Summary

Full-stack engineer experienced in understanding existing codebases, debugging production issues, and extending Node.js and React applications. Has hands-on experience deploying systems on Azure, AWS and integrating GenAI features into practical workflows.

Skills

Languages: JavaScript, TypeScript, HTML, CSS, C/C++
Databases & Caching: MongoDB, PostgreSQL, Redis
Frameworks & Libraries: ReactJS, NextJS, NodeJS, NestJS, ExpressJS
Tools & Cloud: Git/GitHub, JIRA, Postman, Jenkins, SonarQube, Sidekiq, Grafana, Kibana, 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, delivering features in rapid 7-day sprints from early design to production rollout.
- Refactored tightly coupled backend workflows into modular services and Azure Functions, improving stability during peak traffic and high-volume sales events.
- Integrated BigCommerce REST and GraphQL APIs to support order, cart, and checkout workflows, handling retries and partial failures across multiple business flows.
- Built and hardened Azure Functions–based data ingestion pipelines to process large CSV uploads (1,000+ records per file) with schema validation, controlled parallelism, and safe fallbacks to prevent data loss.
- Reduced request-time bottlenecks by moving blocking logic to Redis- and Sidekiq-backed background jobs and applying Redis caching on read-heavy endpoints.
- Established centralized logging and request tracing across 10+ services, cutting investigation time during production incidents and enabling faster root-cause analysis.
- Modernized a large-scale enterprise news and information platform by migrating legacy React UI from v16 to v18, upgrading 40+ components, and enabling repeatable releases through Jenkins and SonarQube.

Altizon Systems   **July 2023 – Oct 2023**
Software Engineer   *Pune, Maharashtra*

- Built RESTful NodeJS APIs to aggregate backend data for 16+ frontend dashboards used by a major Indian auto-component manufacturer and a leading two- and three-wheeler manufacturer.
- Developed dashboards using Apex Charts and Material UI to visualize API-driven data for business reporting.
- Monitored production systems with Grafana and Kibana to detect memory and query issues and applied fixes.

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 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 NextJS 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
- Research Paper (AI/ML)
- AWS Solutions Architect Associate
- AWS Badge: Serverless
- GCP Badges: (Qwiklabs)

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