

# ADITYA SINGH

Hyderabad, Telangana, India

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## Summary

Software Engineer experienced in building and operating cloud-based services using NodeJS, React, and Azure, with hands-on work in open-source codebases, production debugging, and GenAI-driven features.

## 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, Jenkins, SonarQube, Sidekiq, Grafana, Kibana, BigCommerce, 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, coordinating feature delivery in rapid 7-day sprints with a 26-member team from design to production rollout.
- Integrated BigCommerce REST and GraphQL APIs to support user, order, cart, and checkout workflows, handling retries and partial failures across multiple business flows.
- Created shared services (REST client, logger, blob handler, CSV parser) used by 30+ Azure Functions, standardizing error handling and reducing duplicate code.
- Developed multiple data loader services to process CSV files with 10,000+ records using multi-phase workflows, conflict-aware upserts (409→update), retry tracking, and failed-record re-exports.
- Added retry handling that separates retryable errors (429, 500+, timeouts) from non-retryable ones (401, 404, 422), using exponential backoff and attempt tracking, increased successful runs from 85% to 99.5%.
- Created a failed-record handling flow that exports retryable and non-retryable failures to CSV, allowing operations teams to fix and reprocess data without developer involvement.
- Migrated a large enterprise news and information platform from React v16 to v18, updating 43 components and setting up Jenkins and SonarQube for consistent builds within a 31-member team.

### Altizon Systems

July 2023 – Oct 2023

Software Engineer

Pune, Maharashtra

- Built NodeJS REST APIs to aggregate backend data for 16+ frontend dashboards used by large manufacturing clients.
- 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

CGPA : 8.48, Courses: C++, Python, OOP, JavaScript, Machine Learning, Operating Systems

June 2019 – 2023

Pune, Maharashtra