

Abinash Mohanty

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SUMMARY

Angular-focused Software Engineer with 1+ years of experience building scalable frontend applications and automating API test coverage at Fidelity Investments. Skilled in component-driven architecture, performance optimization, and REST API integration within financial systems.

SKILLS

Languages: Java, TypeScript

Frontend: Angular(v17+), RxJS, SCSS, HTML5

Backend: Spring Boot, JWT, JPA

DevOps & Tools: Docker, Jenkins, GitHub, Postman, Jira, Kubernetes

Core Concepts: RESTful APIs, System Design, OOPS, Debugging, Agile (Scrum)

WORK EXPERIENCE

Fidelity Investments | Chennai

Sept 2024 - Sept 2025

Software Engineer - UI Development

- **Built a real-time custom reporting engine** using Angular (v17) with shared API services and reactive component architecture — enabling portfolio managers to generate on-demand reports without page reloads, improving component responsiveness by 50% and delivering the project three weeks ahead of schedule.
- **Eliminated a critical performance bottleneck** in the CUSIP dropdown (used by 100% of reporting workflows) by redesigning the fetch size strategy and optimizing memory handling — reducing load time from 230s to under 5s and enabling smooth, leak-free rendering of 15,000+ entries, a 98% improvement.
- **Decoupled a monolithic component into a modular parent-child architecture**, reducing code duplication across the reporting module and cutting new developer onboarding time by 50% — making it significantly easier for the team to maintain and extend individual report types independently.
- **Reduced user selection errors by 40%** by implementing default template logic with Angular reactive forms and conditional rendering, replacing a manual blank-state workflow that was causing frequent misconfigured report submissions.
- **Contributed to a VP-level migration impact presentation**, modelling component-level refactoring scope and technical debt reduction to support a business case estimating \$4M in operational cost savings from the legacy system migration.

Test Automation

- **Reduced manual test configuration effort by 40% and sped up execution cycles by 30%** by building automated environment selection logic in Karate and Bruno — eliminating the need for engineers to manually swap configs between SIT, UAT, and DEV environments before each test run.
- **Improved data validation accuracy by 45%** by integrating direct database connectivity into test scripts to execute stored procedures, removing reliance on mock data and external stubs that had been masking data transformation bugs.
- **Strengthened defect detection rate by 25%** by designing a structured negative test suite that systematically validated boundary conditions, invalid inputs, and unauthorized access paths across all critical API endpoints.
- **Achieved 97% test coverage across API and UI endpoints**, establishing a reliable regression baseline that allowed the team to deploy with confidence across all three environments.

PROJECTS

WorkForce Analytics Dashboard — Angular 19, RxJS, Chart.js, PapaParse

[GitHub](#) | [Live Demo](#)

Built a fully client-side **analytics dashboard to analyze and visualize trends in layoffs and burnout within the private sector workforce (2000–2025)**, ingesting raw CSV data using PapaParse with optimized transformation pipelines dynamically computing KPIs like YoY growth, company rankings, and trend aggregations with no backend dependency.

TerraPad Reporting Application — Angular 19, Angular Material, Chart.js

[GitHub](#) | [Live Demo](#)

Developed a structured **CRUD application for managing soil density test records, with validation logic** for engineering threshold comparisons and a reporting UI that visualizes compaction metrics against required standards demonstrating domain adaptability beyond financial systems.

QuoteFlow — RFQ Management System — Spring Boot, REST APIs, JWT, JPA

[GitHub](#) | [Case Study](#)

Designed and built REST APIs for a full RFQ lifecycle creation, modification, and approval workflows with role-based access control (RBAC) restricting actions by user role, pricing validation logic, and structured error handling to ensure state transitions remain consistent and auditable.

EDUCATION

Galgotias University – B.Tech(CSE) : **8.72 CGPA**

Sept 2020 - May 2020

ACHIEVEMENTS & CERTIFICATION

- AWS Academy Graduate - AWS Academy Machine Learning Foundations.
- Smart India Hackathon (2023) — Pre-Qualifier, Top 6 out of 200+ teams.
- Winner, Inter-College Art Competition (Sketching)

[Badge](#)

[Image](#)