

JAWALKAR SREENAM DARSHAN

Software Engineer | Java | Spring Boot | GenAI | AWS

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PROFESSIONAL SUMMARY

Software Engineer with professional experience at Cognizant Technology Solutions supporting Fortune 500 clients including Ford Motor Company and UPS, with hands-on experience across Java development, automation frameworks, REST APIs, CI/CD, databases, distributed systems, and production GenAI applications. Strong in Java, Spring Boot, Python, PostgreSQL, AWS, and software engineering fundamentals, with experience contributing to scalable Java frameworks, API integrations, database workflows, messaging systems, and Agentic AI solutions using Gemini APIs. Built and delivered production AI applications that reduced engineering effort by 40–50% and scalable Java frameworks supporting 100+ production workflows. Experienced in OOP, SOLID principles, design patterns, data structures and algorithms, system design, clean code, and software quality engineering using JUnit 5, Mockito, RestAssured, and Cucumber BDD. Recognized as a Cognizant Top Performer for delivering 100+ production-quality workflows with zero critical production escapes. CGPA: 9.14/10.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript (ES6+), SQL

Backend and APIs: Spring Boot, REST APIs, Microservices, JSON, XML, HTTP Protocol, WMQ, SFTP

Databases: PostgreSQL, MongoDB, Couchbase (NoSQL), MySQL, DynamoDB - query design, optimization, data modeling.

Cloud & DevOps: AWS (EC2, S3, Lambda, RDS, IAM, CloudWatch, SQS), Azure DevOps, GitHub Actions, Maven, Git

AI Engineering: Gemini API, Prompt Engineering, Agentic Pipelines, Structured JSON Output.

Frontend: React.js, Hooks, HTML5, CSS3

Software Engineering: Data Structures & Algorithms, OOP, SOLID Principles, Design Patterns, Clean Code, System Design, Code Review

Testing: JUnit 5, Mockito, RestAssured, Cucumber BDD, TestNG, Selenium WebDriver

WORK EXPERIENCE

Cognizant Technology Solutions — Software Engineer

Oct 2024 – Jul 2026 | Chennai, India

- Designed and delivered two production **GenAI/Agentic AI applications** using Python and Gemini API for Fortune 500 client workflows, reducing engineering effort by **40–50%** and saving approximately **2 hours per feature delivery cycle**.
- Designed and built a scalable **Java framework from scratch** using OOP, SOLID, Factory and Page Object Model patterns, reusable utilities, data-driven configuration, and ThreadLocal-based parallel execution; scaled to **100+ production workflows**, improving delivery efficiency by **40%** and reducing authoring time by **30%**.
- Developed and maintained automated software-quality solutions using **Java, JUnit 5, Mockito, Cucumber BDD, RestAssured, and TestNG**, maintaining zero critical production escapes across major enterprise releases.
- Worked on a large-scale **distributed address analytics platform** for UPS, validating REST APIs, JSON payloads, and data consistency across **PostgreSQL and Couchbase**; maintained data accuracy above **99%** across development, SIT, and UAT environments.
- Designed and validated **WMQ message-driven workflows and SFTP integrations** and investigated complex backend failures using SQL, distributed log correlation, messaging tools, and system tracing; reduced data discrepancy rates by **30%** and achieved zero message-loss incidents across validation cycles.
- Owned **Azure DevOps CI/CD pipelines** with automated build, testing, parallel execution, reporting, and quality gates; reduced pipeline execution time by **30%** and collaborated with developers, architects, product

managers, and cross-functional Agile teams.

PROJECTS

Freight Management API | *Java 17, Spring Boot, PostgreSQL, Redis, JWT, Docker, AWS EC2, JUnit 5, Mockito*

In Progress

- Building a production-grade **REST API** for freight logistics using Spring Boot 3, Controller-Service-Repository architecture, PostgreSQL, Flyway migrations, and JPA Specifications for dynamic search and pagination.
- Implementing **JWT-based role-based authentication**, Redis cache-aside optimization, and token-bucket rate limiting supporting **100 requests/minute/IP**.
- Containerizing the application with **Docker Compose** and deploying the application stack with PostgreSQL and Redis on **AWS EC2**; implementing JUnit 5, Mockito, and WebMvcTest coverage.

GenAI Agentic Test Scenario Generator | *Python, Gemini API*

- Built a Python-based **Agentic AI backend service** that converts natural-language feature descriptions into structured positive, negative, and edge-case scenarios; reducing manual authoring effort by **40–50%**.
- Applied few-shot prompting and **JSON schema validation**, reducing LLM hallucination rate from approximately **30% to under 5%** and saving approximately **2 hours per feature cycle**.

Full-Stack Employee Management System | *Java, Spring Boot, React.js, PostgreSQL, MongoDB* | github.com/JSREENAMDARSHAN/employee-management-system

- Built a full-stack application with **Spring Boot REST APIs**, Controller-Service-Repository architecture, PostgreSQL/MongoDB persistence, and a React.js frontend with Hooks and REST API integration.
- Added **JUnit 5** and **RestAssured** testing to validate backend functionality and API behavior.

React Product Dashboard | *React.js, REST APIs, GitHub Actions, Netlify* | <https://github.com/JSREENAMDARSHAN/react-product-dashboard> | <https://leafy-klepon-fcb0ed.netlify.app/>

- Built and deployed a real-time React dashboard with **5+ filtering/search dimensions** and reusable components, reducing code duplication by **40%**; automated deployment using GitHub Actions.

EDUCATION

B.Tech in Computer Science and Engineering | **CGPA: 9.14/10.0**

Sree Vidhyanikethan Engineering College, Tirupati, Andhra Pradesh | 2020–2024

ACHIEVEMENTS

- **Data Structures & Algorithms:** Solved 150+ LeetCode problems across arrays, strings, hashing, linked lists, stacks, queues, and trees.
- **100% Score** — Cognizant Internal Coding Assessment, ranked among top performers across the graduate batch.
- **Cognizant Top Performer Award** — recognized for delivering 100+ production-quality workflows with zero critical production escapes.
- **AWS Cloud Virtual Internship** — Amazon Web Services, Jul 2023.