ADITYA THODSARE

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Portfolio | GitHub | LinkedIn

SUMMARY

Software Engineer building AI-powered products end to end: RAG-based analytics with LLMs, agentic and MCP-driven automation, and full-stack services in Next.js, FastAPI and Spring Boot. Currently shipping AI platform work at Testrig Technologies, with CI/CD and cloud experience (Azure DevOps, Bitbucket, Jenkins, Docker) and a record of taking systems from prototype to deployed app.

EXPERIENCE

Software Engineer Trainee (AI Automation) **Jan 2026 – Present (10 months)**
Testrig Technologies Pvt Ltd Pune, Maharashtra

- Built an **AI-powered, RAG-driven release assurance dashboard** (Next.js, FastAPI, LanceDB, DuckDB): ask questions about test results in plain English and get role-based answers, AI-generated charts, trend analysis and a defensible release-readiness call.
- Designed a **universal ingester** with pluggable connectors (Allure, spreadsheets, databases, HTTP APIs, live Playwright/Cypress runs) that normalizes, chunks and indexes data into vector and SQL stores, so any team's results plug in without custom code.
- Prototyped an **AI test-automation framework**: requirements go in, and AI generates scenarios and specs through **MCP servers and agentic tools** on Playwright and a Cypress + TypeScript boilerplate (Page Object Model, fixtures, AI agent skills).
- Set up CI/CD in **Bitbucket Pipelines, Azure DevOps and Jenkins**, including a Bitbucket-to-Jenkins migration POC; built a **Grafana + Azurite** (Azure Blob emulator, Docker) POC for monitoring quality KPIs.
- Maintained and extended a Playwright + TypeScript end-to-end framework for a healthcare e-commerce platform and a Salesforce application.

PROJECTS

SAFE-V: IoT + Full-Stack Vehicle Safety and AI Monitoring Suite | GitHub · Live App · Demo

- Built a cloud-deployed vehicle safety platform (Next.js frontend, Spring Boot and FastAPI microservices) that unifies IoT, computer vision and real-time monitoring behind REST APIs, with live telemetry dashboards for GPS route history, rollover and impact detection, tilt angle and speed.
- Integrated **YOLOv8** for external-camera traffic-light and road-traffic detection and internal-camera passenger counting, overloading and seatbelt analysis.
- Streamed **ESP32** sensor data (alcohol, fire, gas leakage, temperature, humidity) through ThingSpeak Cloud for live and historical analytics; added alcohol-based engine safety control and automated Email and Telegram emergency alerts with live route history.
- Shipped an AI copilot that finds nearby hospitals, police stations, pharmacies and repair centers; handled hardware–software integration end to end, including PCB design and prototyping in KiCad.

HealthOrbit.AI: Event-Driven Microservices with AI Integration | Backend · Frontend · Demo

- Built an AI-powered health platform that produces doctor-style prescription guidance with **Gemini AI**, alongside a fitness tracking and analytics dashboard.
- Designed an event-driven microservices architecture with Spring Boot, Config Server and Eureka service discovery, using **RabbitMQ** to stream real-time health monitoring events between services.

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, SQL
Backend: Spring Boot, FastAPI, REST APIs, Microservices, Event-Driven Architecture, RabbitMQ
Frontend: Next.js, React
AI & LLM: RAG, LLM API integration, MCP, agentic tools, Claude Code, Cursor, Codex
Databases: MySQL, PostgreSQL, MongoDB
Test Automation: Playwright, Cypress, End-to-End Testing, Page Object Model, Allure
DevOps & Tools: Git, GitHub, Bitbucket, Azure DevOps, Jenkins, Docker, Terraform, CI/CD, Grafana, Jira

EDUCATION

B.E. in Electronics & Telecommunication Engineering **2022 – 2026 | CGPA 9.25/10**
JSPM's Imperial College of Engineering and Research, Pune

Higher Secondary Certificate (HSC), 12th **2022 | 71.83%**
NMV & Jr. College, Markal, Pune

Secondary School Certificate (SSC), 10th **2020 | 88.80%**
Shramjivi High School, Bhosari, Pune

LANGUAGES

English (Professional Proficiency) | Marathi (Native) | Hindi (Fluent)