

PATEL NIRAL

JAVA FULL STACK DEVELOPER | FLUTTER DEVELOPER

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SUMMARY

Java Full Stack and Flutter Developer with hands-on experience building scalable backend systems, REST APIs, AI-powered applications, and cross-platform mobile applications. Skilled in Spring Boot, Angular, Flutter, FastAPI, Firebase, PostgreSQL, and MySQL. Experienced in logistics applications, Retrieval-Augmented Generation (RAG) systems, semantic search, API integrations, authentication systems, and production-grade application architecture.

TECHNICAL SKILLS

Programming Languages: Java, Kotlin, Dart, Python, TypeScript, JavaScript, SQL

Frameworks & Technologies: Spring Boot, Angular, Flutter, FastAPI, Firebase, REST APIs

Databases: PostgreSQL, MySQL, Firebase Realtime Database, Firestore

Tools: Android Studio, VS Code, Git, Selenium, HtmlUnit, Figma

PROFESSIONAL EXPERIENCE

DNG Softwares – Flutter Developer

Apr 2026 – Present

- Working as a Flutter Developer on a production-grade logistics management application.
- Developing scalable cross-platform mobile features using Flutter and Dart.
- Implementing REST API integrations, authentication systems, and real-time data synchronization.
- Working on logistics workflows including shipment tracking, delivery operations, and management modules.
- Improving UI responsiveness, fixing production bugs, and optimizing application performance.
- Collaborating with backend developers and UI/UX teams for feature implementation.

DataCrops – Full Stack Developer Intern

Aug 2025 – Apr 2026

- Worked on a production-grade web application as a Full Stack Developer.
- Developed frontend modules using Angular and TypeScript.
- Designed and built REST APIs for application functionality.
- Managed backend logic, database operations, and API integrations.
- Implemented authentication, CRUD operations, and server-side validations.
- Built automation scripts and internal tools to streamline workflows.
- Fixed bugs and optimized existing application performance.

DIPC Software – Mobile Application Developer Intern

Jan 2025 – Apr 2025

- Developed a movie streaming Android application using Kotlin and Firebase.
- Integrated Firebase Authentication, Realtime Database, and Storage.
- Managed 100+ media entries with real-time synchronization.
- Implemented RecyclerView with genre-based filtering for improved navigation.
- Designed modular UI architecture using Android Fragments.

PERSONAL PROJECTS

NexusAI – Multi-Tenant AI SaaS Chatbot Platform

- Built a multi-tenant AI-powered SaaS chatbot platform enabling users to upload PDF documents and interact with them using semantic AI search.
- Developed the backend using FastAPI with PostgreSQL and pgvector for vector-based document storage and similarity search.
- Implemented Retrieval-Augmented Generation (RAG) architecture using sentence-transformers embeddings and Groq Llama-3.3-70b integration.
- Designed a complete PDF ingestion pipeline including text extraction, chunking, embedding generation, and semantic indexing.
- Implemented JWT-based authentication and tenant isolation for secure multi-user access.

- Built REST APIs for chatbot communication, external widget integrations, and document management.
- Developed an Angular-based dashboard for document uploads, chatbot testing, API key management, and chatbot configuration.
- Integrated semantic vector search using pgvector and NumPy similarity matching for contextual AI responses.

Developer Tools Dashboard (Android)

- Built a multi-utility Android application for developer productivity and debugging.
- Implemented tools including JSON Formatter, API Tester, JWT Decoder, Base64 Encoder/Decoder, UUID Generator, and Timestamp Converter.
- Integrated GET, POST, PUT, PATCH, and DELETE API testing using OkHttp.
- Used Kotlin, Android Fragments, and ViewBinding for clean architecture.
- Implemented structured validation, threading, and response parsing.

Quiz Application

- Developed an interactive quiz application using Kotlin, XML, and Firebase.
- Implemented authentication, timers, score tracking, and leaderboards.
- Used Firebase Firestore and Realtime Database for dynamic data management.

Blog Website

- Built a CRUD-based blog platform using PHP, MySQL, HTML, CSS, and JavaScript.
- Implemented responsive UI design and database-driven content management.
- Developed create, update, delete, and post management functionalities.

EDUCATION

Bachelor of Engineering in Computer Science Engineering

Sal Institute of Engineering Technology and Research
CGPA: 7.35

2021 – 2025

ADDITIONAL INFORMATION

Languages: English, Hindi, Gujarati