

JAYDEO SAWALE

SOFTWARE ENGINEER

Android and Backend Engineering with Applied AI and Generative AI

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PROFESSIONAL SUMMARY

Software engineer with 5+ years of experience including an internship, and 4+ years at eNyota Learning. Manage three Android products on Google Play Console using Kotlin, Retrofit, Coroutines, FCM and WebView/SCORM. Independently built and published three personal apps on Google Play with Flutter/Dart frontends, Python/FastAPI backends, PostgreSQL and applied ML, RAG and Generative AI.

TECHNICAL SKILLS

Languages: Kotlin, Dart, Python; Java (working knowledge)

Android: Android SDK, MVVM, Activities, Fragments, ViewModel, LiveData, ViewBinding, Coroutines, Gradle, Google Play Console

Networking and hybrid: Retrofit, OkHttp, REST APIs, FCM, Flutter/Dart, Flutter Web, WebView, JavaScript/SCORM integration

Backend and storage: FastAPI, PostgreSQL, SQLAlchemy, Firebase Authentication, JWT, Realm

AI and ML: scikit-learn, TF-IDF, Logistic Regression, MLflow, model evaluation, drift monitoring, LangChain, LLM integration, RAG, embeddings, pgvector, BM25, reranking

Delivery tools: Git, GitHub, Android Studio; Vercel, Render, GitHub Actions, pytest and Flutter tests in personal projects

PROFESSIONAL EXPERIENCE

Application Developer | eNyota Learning | May 2022 - Present

- Manage Google Play Console for three products: My Learning Hub, Abara LMS and Abara Lite, covering release management and ongoing app updates.
- Maintain My Learning Hub and Abara LMS as two branded Kotlin Android variants with separate package IDs, versions and signing configurations; contribute to API 36 compatibility.
- Develop MVVM screens and API flows with Activities, Fragments, ViewModel, LiveData and ViewBinding; work with Retrofit, OkHttp, Coroutines and FCM integrations.
- Maintain WebView/JavaScript SCORM course experiences and Realm-backed learner state for progress, scores, session time and completion; support regression checks.
- Reduced app size by approximately 10-11% (90 MB to 80-81 MB) for My Learning Hub and Abara LMS.
- Resolved SSL issues in My Learning Hub and Abara LMS with backend/DevOps teams; reduced app defects by approximately 15% through fixes and QA validation.
- Abara Lite: address Flutter/WebView compatibility, portal loading/retry states and history-aware back navigation; use HTTPS portal lookup and distinguish connectivity failures from invalid codes.
- Replace legacy file selection with Android system selection; update app-specific downloads and remove unnecessary storage-permission gates in Abara Lite.

Android Developer Intern | eNyota Learning | Aug 2021 - May 2022

- Supported Android UI and feature development, debugging and application build integration; collaborated with developers and QA on defect validation.

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PERSONAL PROJECTS

Independently designed, built and published all three apps on Google Play, owning Flutter/Dart frontends, Python/FastAPI backends and PostgreSQL databases.

MessageShield AI | Google Play

Flutter | FastAPI | PostgreSQL | scikit-learn | MLflow | Firebase

- Built a message-analysis application with camera/gallery OCR using Google ML Kit, authenticated FastAPI endpoints, risk signals and PostgreSQL-backed analysis history.
- Trained a 10-category TF-IDF and Logistic Regression classifier on 800 curated messages; achieved 89.5% accuracy and 89.2% weighted F1 on a 200-message held-out split.
- Protected API access using Firebase/JWT authentication and role-based authorization; isolated user history and redacted sensitive message patterns. Added model-version tracking, inference monitoring and PSI drift checks.
- Tracked experiments and models with MLflow; configured GitHub Actions for backend pytest with PostgreSQL, Flutter analysis and Flutter tests, with Vercel/Render deployment configuration.

Legal Lens | Google Play

Flutter | FastAPI | PostgreSQL and pgvector | LangChain | Groq | RAG

- Built a legal-document research application with PDF upload, extraction/OCR, chunking, 384-dimensional SentenceTransformer embeddings and PostgreSQL/pgvector storage.
- Combined semantic retrieval and BM25 keyword search with multi-query expansion, reciprocal rank fusion and cross-encoder reranking to select context for Groq LLM responses.
- Added source citations, saved research conversations, document comparison and user-scoped document access across user, legal-professional and administrator workspaces.
- Implemented ownership-scoped duplicate detection and Cloudflare R2 document storage; added role/access tests and Vercel/Render deployment configuration.

Trav (AI Travel Planner) | Google Play

Flutter and Dart | FastAPI | PostgreSQL | Generative AI | Dio

- Built destination/place discovery, saved places, trips and day-wise itineraries with a Flutter client and FastAPI services using PostgreSQL and SQLAlchemy.
- Integrated AI itinerary drafts using sourced places, structured output validation and review before saving. Enforced ownership, atomic saves and idempotency to avoid partial or duplicate trips.
- Implemented quota-aware Gemini/Groq routing, provider cooldowns and usage records; added bounded discovery caching and source attribution for external place data.
- Built Dio authentication with coordinated token refresh, request timeouts and one retry. Configured Vercel web/Render API deployment and focused backend and Flutter CI checks.

EDUCATION

Master of Computer Applications (MCA) | Saraswati College, Shegaon | 2021

Bachelor of Computer Applications (BCA) | Saraswati College, Shegaon | 2019

CERTIFICATIONS

Building AI Agents with RAG and LangChain

Adda247 Skills, powered by IBM Developer Skills Network | Issued 10 October 2026

Certificate ID: deb5b5740ca44bbe930e2e1f3ce49f15 | Verify credential

AI, ML and Generative AI programme completion

IBM certification | In progress; expected November 2026

NASSCOM certification | In progress; expected November 2026