

JAGANATH M.

Full-Stack AI Engineer — 3+ Years Experience

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EDUCATION

KNS Institute of Technology | [Link](#)

B.Tech in Artificial Intelligence & Machine Learning

Bangalore, India

2021 – 2025

PROFESSIONAL EXPERIENCE

Founder & Full-Stack AI Engineer — FutrDroid_Ai | [Link](#)

Apr 2022 – Nov 2025 | Bangalore, India

- Founded and led a product-driven startup that designed, built, and published **multiple web and mobile products**, including **PassAnyWay**, **Qumatsu**, and several **Mobile apps**.
- Achieved **10k+ organic installs** across apps with zero paid marketing through product-led growth and **SEO**, user feedback loops, and iterative UX improvements.
- Architected and implemented scalable full-stack solutions using **Next.js**, **React**, **TypeScript**, **Node.js**, **Firebase**, **Supabase**, **PostgreSQL**, and **GCP**.
- Production features: **OAuth authentication**, **real-time DB**, **secure storage**, **file uploads**, **chat**, **analytics**, **payments (Razorpay/Stripe)**, **subscription flows**, **offline sync**, and **push notifications**, **Ads**.
- Managed full product lifecycle: product discovery → architecture → implementation → **CI/CD** → monitoring & maintenance.
- Performed cloud cost optimization, performance tuning, and reliability engineering to maximize uptime and reduce response latency.

Web Apps

- **PassAnyWay.com** — Learning & resource platform | [Link](#)
 - Built resource ingestion pipelines and a structured content hierarchy with **1500+ resources**.
 - Features like dashboards, contribution tracking, leaderboards, posts/comments, and role-based access and **Monthly Impressions 1k+**.
- **Qumatsu.com** — Productivity / content tool | [Link](#)
 - Implemented Google OAuth, Google Drive API integration, Razorpay payments, and OpenAI TTS.
 - Built automation for structured document uploads and user dashboards.
- **Beriqa.com** — Commercial product | [Link](#)
 - Designed product flows, user onboarding features, Emotional support with certified listeners via chat, voice, or video.

Mobile Apps (published on Google Play; 3 Major apps)

- **StudyUp (Resource Sharing App)** | [Link](#)
 - Android app for college resource exchange and discussion; features: authenticated uploads, categorized resources, in-app search, offline caching, and push notifications and **2k monthly active users and total 7k+ installs + 4.2 rating of 55 reviews**.
 - Integrated Firebase Storage & Firestore for scalable file hosting and metadata; implemented moderation and contribution scoring.
 - The ultimate academic companion for VTU students, providing all essential resources.

- **Lovedones (Real-time Location & Safety) | [Link](#)**
 - Real-time location sharing, geofencing alerts, SOS feature, and lightweight background tracking with battery-optimized updates.
 - Implemented secure auth, location history, and privacy controls; edge-case handling for offline / low-connectivity scenarios.
- **BalN (Dating / Social Utility) | [Link](#)**
 - Profiles, matching algorithms, chat (real-time), media sharing, and subscription payments.
 - Implemented ad monetization, in-app purchases, and analytics to measure engagement and retention and **total installs 1k+**.

Other Responsibilities

- Led product roadmaps, user research sessions, A/B tests, and growth experiments.
- Built and managed CI/CD pipelines, automated release flows to Play Store / Vercel / Firebase Hosting.
- Conducted beta testing, crash analytics, and iterative bug triage to improve stability and UX.

Full-Stack Engineer — BangaluruRides (Family Business Project) | [Link](#) 2023 – 2024

- Built a cab booking (React + Node + GCP) integrating WhatsApp order flow and automated booking.
- Implemented fare calculation logic, driver allocation pipeline, and basic operations.

N8n Agent Automation — Zero-Cost Content Generation | [Link](#) Jun 2025

- Built automated content generation workflows using **n8n** and native connectors; minimized external API costs via clever orchestration and local tooling

Full-Stack Engineer — FinHub (Personal Project) | [Link](#) Jun 2023 – Jan 2024

- Built a stock market dashboard using React and financial APIs; implemented real-time charting, portfolio tracking, and trend indicators.

Sales & Operations Coordinator — INFINITI Inc | [Link](#) Dec 2020 – Dec 2021

- Managed e-commerce and offline sales on Amazon/Flipkart; handled invoicing, payments, and inventory via Zoho Books and Excel.
- Coordinated logistics, vendor communication, and customer support.

INTERNSHIPS

Wadhwani | [Link](#) Oct 2024 - Jan 2025

- Strengthened communication, emotional intelligence, and leadership skills for personal professional growth.
- Gained practical exposure to CRM, AI, IoT, digital marketing, and career advancement techniques.

Global Core Tech | Machine Learning Intern | [Link](#) Oct 2023 - Nov 2023

- Worked on the 'Order Prediction' ML project.
- Utilized data science methods to derive insights and improve forecasting.

Indian Tech Key | Robotics & App Dev Intern | [Link](#) Nov 2022 – Nov 2022

- Completed a 4-week internship as a first-year student. Gained experience in Robotics
- Worked with tools such as MIT App Inventor, TinkerCAD, Python, Arduino IDE.

PROJECTS

Image-to-Speech GenAI Tool Using LLM | Annual Main Project | 8th sem | [Link](#) Oct 24 – May 25

- AI-powered tool that converts images into short audio stories.
- Combines image captioning, story generation, and text-to-speech in one pipeline.
- Uses Hugging Face BLIP, VITS, Gemini API, and LangChain for integration.
- Deployed on Streamlit and Hugging Face Spaces for easy user access.

Recommendation System – Similarity Metrics Analysis | Annual Main Project | 6th sem | [Link](#) 2024

- Developed a collaborative filtering system to predict user preferences from historical data.
- Compared similarity metrics (Cosine, Pearson, Jaccard, Euclidean) for impact on accuracy.
- Identified optimal methods for various data scenarios through evaluation and analysis.
- Strengthened skills in recommender systems, data-driven and decision making.

Helmet Detection System Using Deep Learning | Annual Main Project | 4th sem | [Link](#) 2023

- Built a real-time helmet detection system using YOLO (v3/v4/v5) and CNNs for industrial safety monitoring.
- Ensured high accuracy under poor lighting, occlusions, and varying angles.
- Deployed lightweight models on edge devices for fast, reliable inference.
- Improved compliance and safety through automated visual monitoring.

Criminal Database Management System (Python Desktop Application) | Annual Main Project | 2nd sem | [Link](#) 2022

- Created a Python-based desktop app with Tkinter for managing criminal records.
- Integrated full CRUD operations with a clean, intuitive GUI.
- Used SQLite3 for secure, efficient local database storage.
- Simulated real-world data management with a focus on usability and performance.

SKILLS SUMMARY

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

Frameworks & Libraries: React.js, Next.js, Vite, Flutter, Expo, Capacitor, Jetpack Compose

Databases & Cloud: Docker, Node.js, Express, Fastapi (basic), Firebase (Firestore, RTDB, Auth, Storage), Supabase, PostgreSQL, GCP, Serverless (Cloud Functions),

AI / ML / Data: LLMs (Hugging Face), Transformers, LangChain, AI Agents, BLIP, VITS, YOLO, data cleaning, model deployment,

Tools & DevOps: Git/GitHub, OAuth, Google Drive API, Firebase Hosting, CI/CD, AppStore deploys, N8N automation, Streamlit, Hugging Face Spaces, N8N Automation

Other: Payments (Razorpay/Stripe), Analytics, Real-time systems, Offline sync, End-to-End Product Development & Ownership, UI/UX Design, Problem Solving, Debugging, Project Management

Personal Summary

Proactive Full-Stack AI Engineer with **3+ years** of experience building and deploying production-ready **web** and **mobile applications** end-to-end. Skilled in taking products from concept to architecture, development, testing, deployment, and ongoing iteration. Learns new frameworks and technologies rapidly (often within 2–3 days) and applies them effectively to project or business needs. Known for strong ownership, problem-solving ability, and delivering under pressure. **Available to join immediately** and open to demonstrating skills through **real tasks** or live problem-solving.