

RANGINENI ROHAN

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SUMMARY

Software Engineer with 3+ years of experience building and shipping AI-powered mobile and web applications across health-tech, clinical nutrition, and sports platforms. Strong hands-on track record in Flutter (cross-platform mobile) and React/TypeScript (web), with end-to-end ownership from architecture through production. Comfortable across the full stack — REST APIs, state management, real-time systems, and ML integration. Published researcher in generative AI; consistently focused on clean architecture, measurable impact, and shipping products users rely on.

WORK EXPERIENCE

Chief Technology Officer | Hyderabad Pickleball Association (HPA)

Apr 2025 – April 2026

- Led end-to-end technical development of playhpa.com, aligning product design with operational and community goals and ensuring **zero critical system downtime** across all live tournaments.
- Designed and deployed a custom fixtures-generator system automating tournament scheduling and reducing manual coordination effort by **80%**, supporting multiple tournament formats.
- Built scalable web components and backend integrations to manage events, registrations, and match data, driving higher repeat participation and consistent user experience.

Software Developer | Alphant

Nov 2024 – Mar 2026

- Architected and delivered cross-platform Flutter applications integrating AI-driven meal planning, budget optimisation, and decision-support features, enabling scalable deployment to **1K+ active users**.
- Designed a modular architecture using WebSockets, reactive forms, and secure authentication, reducing API latency by **~30%** and improving real-time data-synchronisation reliability.
- Implemented real-time chat, push notifications, and offline-first persistence using Hive, achieving **99% data availability** in low-connectivity scenarios.
- Integrated Firebase Analytics, Crashlytics, and Deep Linking — proactively resolving issues and achieving a **40% reduction** in crash rates post-release.

AI & ML Intern | Verzeo

Apr 2022 – Jun 2022

- Completed a 3-month intensive AI & ML programme covering the full ML lifecycle; built a handwritten character recognition system on MNIST achieving **>98% model accuracy** via optimised CNNs.

PROJECTS

- LetMeDoIt (letmedoit.org) | Flutter · GetX · Firebase · WebSockets — AI-driven independence app simplifying complex decisions into structured steps; provides financial literacy tools and AI assistance.
- PocketCare (pocketcare.ai) | Flutter · BLoC · Sqflite · Firebase — Secure offline-first cross-platform medical vault for smart scanning, health record management, and critical health insights on demand.
- ResumeIQ | Python · FastAPI · LangChain · RAG · LLMs — Full-stack AI platform delivering instant resume scoring, skill-gap analysis, and salary insights via a RAG pipeline backed by LLMs.
- Tournament Fixtures Generator (fixtures.playhpa.com) | Next.js · FastAPI · Python · TypeScript — Full-stack scheduling engine automating conflict-free tournament fixtures from raw Excel data.

EDUCATION

B.Tech – Artificial Intelligence & Machine Learning

2020 – 2024

Vignana Bharathi Institute of Technology | CGPA: 7.84 | **Publication:** Music Generation using RNN — IJNRD, April 2024

TECHNICAL SKILLS

Languages & Tools: Python, Dart, TypeScript, JavaScript, SQL, HTML5, CSS3, Git, Docker, MySQL, Supabase, Firebase

Mobile & Web: Flutter, GetX, BLoC, Riverpod, Hive, Sqflite, React, Next.js, Vite, Tailwind CSS, shadcn/ui, Radix UI, MUI, TanStack Query, React Hook Form, FullCalendar, dnd-kit, Zod, Recharts

Backend & AI / ML: FastAPI, REST APIs, WebSockets, Pydantic, Uvicorn, LangChain, RAG, LLMs (OpenAI/Claude), TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, LanceDB, Computer Vision, CNN, RNN