VIKNESH VENKATESAN

Cross-Platform Application & AI Developer (Flutter · C# · On-Device & Cloud AI)

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SUMMARY

Cross-platform application and AI software developer with 2+ years of production experience shipping mobile, desktop, and web applications across Android, iOS, Windows, macOS, and the Web. Experienced in Flutter (Dart), C#, React, Node.js, Supabase, and Firebase, with deep hands-on expertise integrating on-device speech recognition (Whisper.cpp) and cloud LLM workflows (Azure AI Foundry, Claude AI) into commercial consumer apps with 10,000+ downloads.

TECHNICAL SKILLS

Mobile & Cross-Platform: Flutter (Dart), C# / Unity UI Toolkit, Android & iOS Production Releases, Windows & macOS Desktop

AI & Speech Integration: Whisper.cpp (offline on-device speech-to-text), Azure AI Foundry, Claude AI / LLM Prompt Pipelines

Web & Backend Services: React, Node.js, Supabase (PostgreSQL, Auth, Edge Functions), Firebase (Auth, Firestore, Analytics), Vercel

Monetization & Native SDKs: In-App Purchases (IAP), Google AdMob, REST APIs, PDF Generation, EDM4U Dependency Resolver

Performance & Tooling: 60 FPS Mobile Profiling, Memory & Startup Optimization, LogCat Debugging, Git/GitHub, Agile CI/CD

EXPERIENCE

Application & Interactive Systems Developer May 2024 – Present

Little Learning Lab *Chennai, India*

– Architected, built, and shipped **3 commercial mobile applications** (*Speakaroo*, *Writearoo*, *Social Adventures*) on Google Play (**10,000+ downloads**) and the iOS App Store, owning full-lifecycle architecture, UI, and release management.

– Integrated **Whisper.cpp** (offline on-device speech recognition) and **Azure AI Foundry** into *Speakaroo* to evaluate user pronunciation in real time with low latency.

– Engineered responsive cross-device UI flows, state management, local caching, and modular C# client architecture.

– Integrated **Firebase**, **In-App Purchases (IAP)**, and **Google AdMob** into production builds, resolving native Android/iOS dependencies via EDM4U.

– Profiled and optimized mobile memory and rendering performance across low-end Android and iOS devices using LogCat.

Independent AI & Cross-Platform App Builder Jan. 2025 – Present

Self-Directed Product Lab *Chennai, India*

– Designed and deployed 4 cross-platform productivity and AI applications across Web (Vercel), Android, iOS, Windows, and macOS using **Flutter**, **Supabase**, **Whisper.cpp**, and **LLM APIs**.

APPLICATION & AI PROJECTS

Pitchcraft AI | *Whisper.cpp, AI Evaluation, Cross-Platform* Windows, macOS, Android & iOS

– Offline-capable AI pitch and presentation coach using on-device Whisper.cpp speech-to-text to analyze speaking pace, filler words, clarity, and delivery structure without requiring cloud uploads.

ViralScript AI | *Web App, LLM Pipeline, Auth, Vercel* Web SaaS (Live)

– Full-stack AI short-form video script generator featuring user authentication, a cloud script library, hook/retention structuring, free tier, and paid subscription plans.

GenQuote | *Flutter, Dart, Supabase, PDF Engine* Android

– Mobile business application for automated electrical load calculation and instant client PDF quotation generation, backed by Supabase cloud database and authentication.

BuildCalc | *Flutter, Dart, Material UI* Android

– Fast offline construction material, area, volume, and cost estimation calculator built with Flutter for field engineers and contractors.

Speakaroo: Speech Therapy | *C#, Whisper.cpp, Azure AI Foundry, Firebase* Android & iOS (10K+ Installs)

– Commercial speech therapy mobile app with real-time on-device phoneme recognition and interactive pronunciation scoring.

EDUCATION

Jain Online (Deemed-to-be University) Aug. 2021 – Sep. 2023

Master of Computer Applications (MCA) *Bengaluru, India*

Mahendra College of Engineering Jun. 2013 – May 2017

B.E. Mechanical and Automation Engineering *Tiruchengodu, India*