

ANANYA KAUL

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EDUCATION

Vellore Institute of Technology, Bhopal

B.Tech in Computer Science Engineering with Specialisation in Artificial Intelligence and Machine Learning

08/2020 - 07/2024

CGPA - 8.81/10

EXPERIENCE

Junior Mobile Developer – iApp Technologies LLP(current)

- Engineered and maintained high-performance iOS applications with scalable architecture, optimized for App Store deployment.
- Boosted app performance and stability across core modules, directly improving user satisfaction and retention; recognized as the youngest recipient of the “**Rising Star of the Company**” award.
- Designed modular iOS SDKs emphasizing reusability and future-proofing, accelerating team productivity by reducing code redundancy
- Developed and integrated VoIP calling and messaging using **Telnyx API**, **CallKit**, and **PushKit** in *SecondLine*, scaling to **6,000+ active users**.
- Led UI overhaul of the core calling interface in collaboration with product/design teams, resulting in a **40% boost in DAUs** and **25% increase in average call duration**.
- Implemented advanced features in *PhotoVoice Translator*, including **AI chat**, **real-time translation**, and **text/PDF extraction** using **DeepSeek API** and **Vision Framework**.
- Built MathAi**, an AI-powered cross-platform homework assistant with real-time math solving, voice interaction, and in-app monetization.
- Conducted comprehensive **code reviews**, **unit testing (XCTest)**, and debugging to ensure stability, compliance, and optimal UX.
- Authored detailed internal documentation and followed **MVC principles**, ensuring team-wide consistency and faster onboarding of new developers.

PROJECTS

Math AI - Homework Helper

(Available on the App Store) → [App Link](#)

Flutter, Dart, GetX, Firebase, SQLite, STT/TTS, In-App Purchases

- Developed a cross-platform mobile app using Flutter to help students solve math problems, write essays with AI, and summarize PDFs.
- Built a real-time math solver with camera input and AI-powered step-by-step solutions; enabled graph rendering for visual representation.
- Integrated speech-to-text and text-to-speech for hands-free interaction, improving accessibility and user engagement.
- Used GetX for scalable architecture, state management, and efficient navigation.
- Enabled in-app purchases with tiered subscription plans (weekly/monthly/yearly); enforced usage limits for free users.
- Implemented SQLite-based chat with file/image/audio attachments and dynamic markdown rendering (math, code, quotes).
- Designed responsive UI with animation and multitasking support for tablets and iPads.
- Embedded Firebase Analytics to track user behavior, onboarding flow, and subscription events for data-driven optimization.

PhotoVoice Translator

(Available on the App Store) → [App Link](#)

Swift/UIKit, Storyboard, Vision Framework, Google Translation API, Alamofire, Core Data

- Crafted an iOS app using UIKit (Swift & Storyboard) for real-time text translation across multiple languages.
- Integrated sophisticated features such as word-to-text and PDF-to-text extraction for seamless text retrieval.
- Engineered an AI-powered tutor system to facilitate interactive language learning.
- Incorporated AI chat prompts using DeepSeek API to enhance user engagement.
- Leveraged Google Translation API to ensure fast and accurate translations.

SecondLine

(Available on the App Store) → [App Link](#)

Swift/UIKit, Storyboard, Telnyx API, Core Data, WebRTC, CallKit and PushKit, Firebase, Alamofire

- Constructed an iOS application that enables users to acquire alternate phone numbers from different countries.
- Implemented Telnyx API for seamless VoIP calling and messaging capabilities.
- Deployed VoIP push notifications to provide real-time call and message alerts.
- Developed essential features such as call and chat functionality, recent call history tracking, and number management.
- Optimized performance and user experience, scaling to **6000+ active users**.

SKILLS

- Programming:** Swift, Python, CoreML

- **iOS Development:** UIKit, Storyboard, Xcode, MVVM, MVC , Combine, Unit testing (XCTest)
- **APIs & Frameworks:** RESTful APIs, Google Translation API, Telnyx API, WebRTC
- **Project Management:** Agile, Scrum, Jira

CERTIFICATES

- IBM Data Science Professional Course
- Meta iOS Developer Course
- Google Data Analytics Professional Course

CO-CURRICULAR ACTIVITIES & ACHIEVEMENTS

Achievements:

- Awarded “**Rising Star of the Company**” along with a cash prize for exceptional performance and contribution.
- **AdVITya Fest 2023** – Led a team of 30 members, increasing event attendance by **20%** and sponsorship revenue by **15%**.
- **Research Publication** – Published a research paper on advanced engineering in the International Research Journal on Advanced Engineering Hub (IRJAEH). [\[Link\]](#)
- **AI Empowered Speech Applications Workshop** – Attended a specialized AI workshop facilitated by the AI Club.

Leadership & Responsibilities:

- Championed outreach initiatives, growing membership by **25%** through strategic partnerships and sponsorships, leading to increased club revenue.
- Fostered a collaborative environment as a **Student Council Member (Grades 9–12)**, contributing to key school initiatives.
- **Vice-Captain, School Football Team** – Led team coordination and strategy development.

Extracurricular Activities:

- Created **education tech content** through reels and short videos, simplifying complex mobile development and AI concepts for digital audiences.
- **Volunteer, Unnat Bharat Abhiyan** – Reached **300+ rural children**, conducting workshops on education and sanitation, leading to a **40% increase in health awareness**.
- **5-Day Workshop, Cranes Varsity, Bangalore** – Hands-on experience in advanced engineering and technology applications.
- **Industry Visits, Chennai** – Led guided tours to **CDAC and OBEEV**, gaining insights into emerging technologies and operational processes.