Ayush Ambatkar

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About Me

I am a pre-final year Electronics and IoT student at IIIT Nagpur with a specialization in full-stack mobile development. I have successfully developed cross-platform applications using Flutter/Dart, and built scalable backend services with Node.js and Python. My expertise lies in designing and implementing RESTful APIs, optimizing database architecture, and adopting modern mobile development practices. I focus on delivering tangible, user centric solutions by combining intuitive user experiences with scalable and efficient server-side architecture. My goal is to create applications that enhance performance, improve user engagement, and meet business needs.

Education

Indian Institute of Information Technology   Nagpur
Bachelor of Technology in Electronics and Communication, Specialization in IOT   *Nov. 2022 – Present*

Technical Skills

Languages: C, C++, Node.js, JavaScript, TypeScript, Python, Dart, Java, MicroPython
Frameworks: Flutter, Express.js, FastAPI, Flask
Developer Tools: Docker, AWS, Git/GitHub, Android Studio, Jupyter, Postman, Google Colab
Databases: PostgreSQL, MySQL, SQLite, MongoDB, Cloud Firestore

Experience

Flutter Developer Intern | *Nomad Devs* | September 2024 - November 2024 | [LoR](#) | [Certificate](#)
- Collaborated with a team to build **PlaceM8**, implementing user-friendly UI/UX designs and leveraging MVVM architecture to enhance app stability and scalability.
- Collaborated within an Agile environment to deploy features on time, incorporating weekly standups, code reviews, and iterative development.

Flutter Developer Intern | *Ploofypaws* | June 2024 - August 2024 | [Certificate](#)
- Built the complete UI for the app and developed key features like video calls, live IoT tracking, and real-time chatting, enhancing overall user experience and engagement.
- Integrated Firebase for reliable backend operations and performed manual testing to improve app performance and responsiveness.

Android Developer Intern | *Visvesvaraya National Institute of Technology Nagpur* | February 2024 - June 2024 | [LoR](#)
- Developed a mobile app for live health monitoring by integrating Max30105 sensor assembly data via USB serial communication, enabling real-time visualization with live chart plotting.
- Optimized data accuracy and app responsiveness through meticulous debugging and hardware/software integration, while establishing efficient data pipelines using CSV and SQLite for seamless health data management.

Projects

YouHow Chat | *Dart, Flutter, Firebase, Agora* | [GitHub](#)

Frontend: Flutter, Dart

Backend: Firebase, Node.js, Agora SDK(Voice Call), Cloud Firestore

Key Features: Real-time voice and video calling using Agora SDK. Comprehensive messaging and communication features. User feedback sessions to iteratively improve app functionality and user satisfaction.

SERENE - Mental Health Companion | *Dart, Flutter, Firebase, Firestore, Google Gemini* | [GitHub](#)

Frontend: Flutter, Dart

Backend: Firebase, Cloud Firestore

Key Features: Secure authentication and data storage with Firebase and Firestore. Personalized support via a chatbot using Google's Gemini AI. Usability testing to refine user interface and improve user experience. Journaling and quiz features to support mental health assessment and self-reflection.