Madhav Gupta

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PROFESSIONAL SUMMARY

Dedicated Flutter Developer and Open Source Contributor with 2+ years of hands-on experience crafting cross-platform mobile applications using Flutter, Dart, and native development with 150+ Open Source Contributions. Demonstrated expertise in delivering scalable, high-performance mobile apps with proficiency in state management, API integration, and CI/CD implementation. Contributed to Google Summer of Code 2025 and currently engineering innovative fintech solutions. Strong background in AI/ML integration, open-source contribution, and building apps deployed on major app stores.

SKILLS

- **Mobile Development**: Flutter, Dart, Kotlin, Swift, React Native
- **Backend & APIs**: Node.js, Express.js, Firebase, GraphQL
- **Databases**: MongoDB, MySQL, SQLite, Hive, ObjectBox, Firebase Firestore
- **Cloud & DevOps**: Azure, AWS, Firebase, CI/CD Pipelines, Docker, Git, GitHub Actions
- **AI&ML**: TensorFlow, YOLOv8, Computer Vision, Voice Recognition, NLP

EXPERIENCE

- **Google Summer of Code** — Remote
  Contributor ⎘ — *May 2025 - Oct 2025*
  - **Contributed to Resonate App** ⎘: Open-source social voice application (alternative to Twitter Spaces/Clubhouse) with 50+ implemented features and quality improvements, deployed to Google Play Store
  - **Established CI/CD pipeline**: Set up automated build compilation and deployment to Google Play Internal Testing, reducing deployment time by 75%
  - **Engineered comprehensive test suite**: Created automated software tests covering 50% of app functionalities using widget and unit testing frameworks, decreasing production bugs by 60%
  - **Enhanced accessibility features**: Added internationalization support and On Device Transcription functionality improving user inclusivity and experience by 70%
  - **Optimized search performance**: Migrated from basic database queries to Meilisearch AI-powered search engine, boosting search speed by 60%

- **PowerClub Global** — Remote (Miami, Florida)
  Junior Developer — *February 2024 - Present*
  - **Built YachtMaster App** ⎘: Led full-stack development and deployment of yacht chartering application on Apple App Store, implementing advanced Flutter features including Custom Painter, Isolates, and state management solutions (Bloc/Provider)
  - **Built Pythia RAG Chatbot**: Architected ML-powered internal chatbot using RAG architecture on Azure, improving company information accessibility by 75% and handling 500+ daily queries.
  - **Developed AlphaGo** ⎘: Cross-platform Web3 social networking dApp using Bitcoin DevKit and Esplora RPC, incentivizing crypto conference attendance and later enabling Offline On-Chain Transanctions.
  - **Architected and developed Alpha Protocol**: Revolutionary decentralized communication protocol using LoRA mesh networks enabling offline Bitcoin transactions and off-grid communication reducing dependency on traditional infrastructure by 100% and demonstrating expertise in cutting-edge blockchain technology

- **One Stop Tech Solutions** — Remote (Bangalore, India)
  Consultant Full Stack Developer — *January 2024 - Present*
  - **Built IoT water tank management system**: End-to-end solution connecting IoT devices with mobile applications for real-time monitoring and control, reducing manual monitoring costs by 60%
  - **Developed firmware using ESP-IDF**: Industry-standard embedded development for IoT hardware integration with cost-effective scalability
  - **Created client-side mobile application**: Flutter-based cross-platform app with Firebase backend and AWS S3 integration for data storage and analytics with over 99% uptime and streamlined client onboarding and support

- **TechGropse** — Hybrid (Noida, India)
  Node.js Intern — *August 2023 - February 2024*
  - **Developed scalable backends**: Built secure, production-ready APIs using Node.js and MongoDB for multiple client applications serving 10,000+ concurrent users with 99.8% uptime
  - **Implemented CI/CD pipelines**: Established automated deployment workflows reducing deployment time by 70% and ensuring zero-downtime releases
  - **Collaborated in enterprise environment**: Worked with 5+ cross-functional teams and 15+ developers on large codebases, learning Git workflows and code review processes

PROJECTS

- **meshtastic_flutter** ⎘:
  A comprehensive Flutter package that enables direct communication with **Meshtastic** devices over Bluetooth Low Energy (BLE), implementing the full Meshtastic protocol. It supports real-time node updates, text and telemetry messaging, and complete device configuration access via a type-safe, cross-platform API. The package is fully compatible with Android and iOS and provides a stream-based architecture for real-time mesh network interaction. Tech Stack: Dart, Flutter, Bluetooth Low Energy (BLE), Protobuf, Meshtastic Protocol.

COMMUNITY WORK AND VOLUNTEERING

- **FOSS United Chapter Bennett University** — Greater Noida, India
  Founder and Co-Lead — *August 2024 - Present*
  Attempting to develop and foster Open Source culture at Bennett University by spearheading initiatives undertaken by the official FOSS United Chapter at Bennett University.

EDUCATION

- **Bennett University (Ongoing)** — Greater Noida, India
  B.Tech. Computer Science: CGPA - 8.42 (6th Sem) — *2022-2026*