

Madhav Gupta

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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
May 2025 - Oct 2025
Open Source Contributor
 - **Feature Development:** Delivered 50+ features and platform improvements to **Resonate** by contributing across mobile architecture, UX, and developer tooling
 - **CI/CD Automation:** Reduced deployment turnaround time by 75% by engineering automated testing and Google Play Internal Testing pipelines using GitHub Actions
 - **Test Engineering:** Decreased production regressions by 60% by building widget and unit test suites covering critical application workflows
 - **Accessibility Enhancements:** Improved platform usability by implementing internationalization and on-device speech transcription capabilities
 - **Search Optimization:** Boosted search performance by 60% by migrating from traditional database queries to Meilisearch-powered indexing and retrieval systems
- **PowerClub Global** [↗](#) Remote (Miami, Florida)
February 2024 - Present
Junior Developer → Senior Engineer
 - **AI Workflow Systems:** Built core platform features for **Orcha**, an agentic product management system using React, TSX, Rust, and AI APIs, enabling autonomous agents to execute workflows including research, development, meeting transcription, and task orchestration within collaborative Kanban environments
 - **Product Development:** Built and deployed the **YachtMaster App** on the Apple App Store by leading full-stack development using Flutter, scalable state management, and performance-focused mobile architecture
 - **AI Infrastructure:** Improved internal information accessibility by 75% and supported 500+ daily queries by architecting a RAG-based enterprise chatbot on Azure using modern ML pipelines
 - **Web3 Engineering:** Developed **AlphaGo**, a cross-platform Web3 social platform using Flutter, Bitcoin DevKit, and Esplora RPC with support for offline on-chain transaction workflows
 - **Protocol Design:** Engineered Alpha Protocol, a decentralized LoRa mesh communication system enabling off-grid messaging and offline Bitcoin transactions without traditional network infrastructure
- **One Stop Tech Solutions** [↗](#) Remote (Bangalore, India)
January 2024 - Present
Consultant Product Engineer
 - **IoT Platform Development:** Reduced manual monitoring costs by 60% by building an end-to-end IoT water tank management system with real-time device monitoring, automation, and remote control capabilities
 - **Embedded Systems Engineering:** Developed scalable ESP-IDF firmware in C++ for IoT hardware integration, enabling reliable low-cost deployment across production environments
 - **Cross-Platform Applications:** Built and deployed a cross-platform client application using Flutter, Firebase, and AWS S3 with 99% uptime for real-time analytics, device management, and operational workflows
- **TechGropse** [↗](#) Hybrid (Noida, India)
August 2023 - February 2024
Backend Engineering Intern
 - **Backend Development:** Built secure and scalable Node.js and MongoDB APIs for multiple production applications supporting 10,000+ concurrent users with 99.8% uptime
 - **DevOps Automation:** Reduced deployment turnaround time by 70% by implementing CI/CD workflows enabling automated and zero-downtime releases
 - **Cross-Team Collaboration:** Collaborated across 5+ cross-functional teams and large shared codebases using enterprise Git workflows, peer reviews, and agile development practices

PROJECTS

- **meshtastic_flutter** [↗](#):
Built a cross-platform Flutter package implementing the full Meshtastic BLE protocol stack, enabling real-time mesh communication, telemetry streaming, and device configuration through a type-safe API architecture.
Tech Stack: Dart, Flutter, BLE, Protobuf, Meshtastic Protocol.
- **W-Secure** [↗](#):
Engineered an AI-powered safety platform integrating emergency SOS workflows, cloud-synced media streaming, and edge-based CCTV threat detection using computer vision and gesture analytics for real-time incident monitoring.
Tech Stack: Flutter, Firebase, TensorFlow, YOLOv8, ViT, Roboflow.

COMMUNITY WORK AND VOLUNTEERING

- **AOSSIE** [↗](#) Remote (Australia)
November 2025 - Present
Google Summer of Code Organization Administrator
 - **Program Leadership:** Promoted to GSoC Organization Administrator for overseeing contributor onboarding, mentor coordination, project evaluations, and program execution across multiple open-source initiatives
 - **Technical Mentorship:** Mentoring 6 student contributors across diverse projects and technology stacks, providing architectural guidance, code reviews, development support, and open-source best practices
 - **Community Operations:** Facilitated collaboration between global contributors and mentors by streamlining communication workflows, contribution processes, and project tracking within distributed engineering teams

EDUCATION

- **Bennett University (Ongoing)** Greater Noida, India
2022-2026
B.Tech. Computer Science: CGPA - 8.55 (7th Sem)