

APPU M

Senior Application Engineer | Flutter Developer

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SUMMARY

Senior Application Engineer with ~3 years of hands-on experience delivering production-grade mobile apps, scalable backend systems, and real-time IoT dashboards.

Skilled in Flutter, Python, SQL, REST APIs, and modular architectures — with strong focus on performance, reliability, and clean engineering principles.

Built and shipped systems in production, optimized backend workflows, reduced latency, and replaced polling with WebSocket-based real-time communication.

TECHNICAL SKILLS

- **Mobile Development:** Flutter, Dart, Android/iOS Deployment, Deep Linking, Push Notifications, Play Store & App Store Releases, Responsive UI, Performance Optimization
- **Backend & Cloud:** REST APIs, Python, SQL, Firebase (Auth, Firestore, FCM), AWS (EC2/S3), Ubuntu Servers, JSON, Postman
- **Architecture & State Management:** Clean Architecture, MVVM, Modularization, Bloc, Provider, Riverpod
- **CI/CD & Testing:** GitHub Actions, Codemagic, Testing & Debugging, Profiling, Code Reviews
- **IoT & Hardware Integrations:** WebSockets, RS-485, Modbus, TCP/IP integrations, Serial data pipelines

PROFESSIONAL EXPERIENCE

Senior Application Engineer — Herin Electronics (Dec 2025 – Present)

- Designed the complete architecture for HEIoT Dashboard (anvay.herin.in) using WebSockets, cutting latency and reducing server load.
- Strengthened backend data pipelines for consistency and throughput.
- Streamlined deployments and real-time monitoring workflows.
- Worked closely with UI, backend, and hardware teams to deliver stable production systems.

Software Development Engineer — Herin Electronics (Jan 2025 – Nov 2025)

- Delivered features across Flutter and backend using Dart, Python, and SQL.
- Built real-time IoT visualization modules and data flows.
- Added reminders, offline sync, notifications, and subscription features.
- Tuned SQL execution performance and backend logic.

Application Engineer — Herin Electronics (Jan 2023 – Jan 2025)

- Built cross-platform mobile apps with streaming, chat, PDFs, multimedia, and dynamic content.
- Upgraded IoT dashboards — reduced report preparation time by 30% and improved data accuracy.
- Published apps with 5,000+ installs, integrated deep linking and FCM alerts.
- Designed scalable SQL and API workflows.
- Worked on internal hardware integrations:
 - RS-485, Modbus communication and TCP/IP data acquisition
 - Mobile app integration with in-house IoT devices

KEY PROJECTS

- **FleetTrack Pro (Android + iOS):** Live fleet tracking platform integrating hardware devices, subscription plans, payments, notifications, and route tracking.
- **HEIoT Real-Time Dashboard (anvay.herin.in):** WebSocket-based IoT platform with dynamic charts, alerts, PDF reports, and automated email delivery — replacing polling methods.
- **Cross-Platform Streaming App:** Flutter app with Bloc architecture, REST API integration, deep linking, gesture-based UI, and FCM notifications.
- **Metrology Calibration Suite:** Real-time measurement system with GUI/CLI support and computerized Excel report generation.
- **PDF Extraction & Validation System:** Python + local Gemma 3.7B LLM pipeline for PDF extraction, validation logic, and systematized error detection.

EDUCATION

MCA — Karnataka State Open University (2025) — CGPA: 8.45

BCA — Davangere University (2022) — CGPA: 8.9

CERTIFICATIONS

- Software Engineering — HackerRank
- SQL Intermediate — HackerRank

ADDITIONAL STRENGTHS

Clean Code · Debugging · Agile/Scrum · CI/CD · Firebase · AWS · Problem Solving