Abhay K V

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Summary — Full Stack Flutter Engineer with 2 years building cross-platform mobile applications integrating IoT, AI, and real-time systems. Led migration of 9 legacy apps serving 2000+ users, reducing costs by 40%. Specialized in ESP32 embedded systems, enterprise architecture, and delivering quality solutions with grit and attention to detail.

Technical Skills

Mobile Development: Flutter, Dart, GetX, BLoC
IoT & Embedded Systems: ESP32, Arduino, BLE, Sensor Integration
Backend & Database: Supabase, REST APIs, PostgreSQL
Programming Languages: Dart, Python, Java, C

Development Tools: Git, CI/CD, Codemagic, FlutterFlow, N8N, Lovable, Bolt
AI Integration: OpenAI API, Gemini API, OCR
Network Protocols: WebSocket, REST, TCP/IP
Other: Shorebird, Crashlytics, GDPR/HIPAA Compliance

Experience

Centrim Life (ecaret solutions)   **May 2025 – present**
Mobile App Migration Lead & Flutter Developer

- Spearheaded complete platform transformation, migrating 9 legacy Ionic applications into 2 unified Flutter applications supporting tablet, kiosk, and mobile experiences across 12,000+ users in Australia and UK aged care facilities—reducing maintenance overhead by 78% and cutting infrastructure costs by 40%
- Architected enterprise-grade development infrastructure including monorepo with BLoC state management, Figma design token integration, Flutter flavors for white-labeling, Codemagic CI/CD pipelines, and comprehensive unit/widget/BLoC testing—eliminating 90% of manual deployment workflows and enabling same-day multiregional releases
- Implemented production monitoring stack (Mixpanel analytics, Sentry crash reporting, Shorebird OTA updates) improving application stability reducing critical bug resolution time and enabling instant fixes without app store approval delays from 2 days to hours.

Design With Panda   **June 2024 – May 2025**
Flutter Developer (Remote)

- Delivered 2 major client projects as remote Flutter developer, progressing from **internship (Jun - Oct 2024)** to **full-time developer role (Nov 2024 - May 2025)**, specializing in rapid MVP development and cross-platform mobile solutions for startups and enterprises
  Notable Projects:
- **Trinity Employment (Recruitment Platform):** Built scalable job marketplace application serving 400+ users with GetX state management, Supabase backend, advanced search/filtering, secure authentication, and row-level security—accelerating maid hiring process by 60%
- **iFastSocial Complete Ecosystem (Insurance Agent Platform):** Architected integrated multi-module platform combining Florida-certified insurance training LMS (video courses, interactive quizzes, PDF materials, certification system recognized by Florida Department of Insurance) with comprehensive marketing dashboard enabling agents to monitor Google Ads metrics, Instagram/Facebook analytics, local business listings, and submit content to IFS marketing team—serving as unified business management hub for insurance professionals

Trending Island   **January 2024 – June 2024**
Growth Manager & App Developer (Remote Internship)

- Foundation role where I developed core skills in Flutter development, MVP validation, and product strategy while working closely with founders on early-stage startup operations
- Gained hands-on experience in user research, market validation, FlutterFlow rapid prototyping, and understanding business requirements—establishing foundation for client-facing development work

Education

APJ Abdul Kalam Technological University — Vimal Jyothi Engineering College   **Nov 2021 – Jun 2025**
Bachelor of Technology in Computer Science and Engineering
CGPA: 7.33

Certifications

- DeepLearning.AI - Supervised Machine Learning: Regression and Classification — Stanford University
- Coursera - Introduction to Python Programming University of Pennsylvania

Key Projects

Watr — Flutter x ESP32 IoT Hydration Monitoring System   **January 2025 – March 2025**

- Designed affordable smart hydration solution eliminating expensive proprietary smart bottles, enabling multi-user tracking for office workers, elderly care facilities, and hospital patient monitoring
- Built end-to-end IoT system integrating ESP32 microcontroller with Flutter app via WiFi local server, demonstrating embedded-to-mobile architecture applicable to yacht automation and marine sensor monitoring
- Developed embedded C/C++ code in Arduino IDE with custom change-detection algorithms and priority-based data transmission achieving sub-500ms latency
- Solved sensor calibration and real-time data synchronization challenges between hardware and mobile app with Supabase backend for persistent storage

NutriScan — Flutter x Flask AI-Enabled Ingredient Scanner   **February 2024 – April 2024**

- Created solution for health-conscious consumers including gym enthusiasts, pregnant women, and individuals with dietary restrictions to make informed food purchasing decisions
- Built full-stack mobile app with Flutter frontend and Flask backend, integrating Tesseract OCR for text extraction from product images via camera or gallery
- Implemented AI pipeline combining OCR with Gemini and OpenAI APIs for ingredient analysis, health warnings, and safety recommendations achieving 95% accuracy