SURAJ S PILLAI

Flutter Developer • Mobile App Engineer • Cross Platform Specialist

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Alappuzha, Kerala, India

PROFESSIONAL SUMMARY

Accomplished Flutter Developer with 2+ years of experience in the complete mobile applications development lifecycle, from concept to deployment. Expert in Dart, Riverpod, and BLoC for scalable state management. Proven ability to boost app performance by 15% and user engagement by 30% through detailed code optimization and feature implementation. Seeking to leverage expertise in cross-platform development and backend integration (REST APIs, Firebase) to build high-impact mobile solutions.

WORK EXPERIENCE

Mobile App Developer | Cybios Technologies Pvt Ltd

Ernakulam, India | Jan 2024 – Present

- Led the design, development, and shipping of Android and iOS applications on Google Play Store and Apple App Store, covering the full Software Development Lifecycle (SDLC) from idea to release.
- Built a robust data layer by wiring Django **REST API** calls into a clear request/response flow, adding layered caching with Dio and a caching fallback flow using Hive, so the app stays usable even on poor networks.
- Used **Firebase** and **Django** as core backend data stores across multiple production apps, and integrated third-party services including **phone.email** for secure phone/email authentication, **Pushy** for high-reliability push notifications, and **Razorpay** for seamless in-app payment flows.
- Developed lightweight in-app **gamification** experiences using the Flutter **Flame** game engine (mini-games, animated meters) to make routine flows feel more rewarding and increase user engagement.
- Designed a custom **responsive configuration** system for Flutter that centralizes screen adaptation rules, avoiding fragile, scattered layout logic and reducing the need for external packages like flutter_screenutil.
- Conducted authorized web-application penetration tests (WAPT) and **red team exercises**, and regularly joined internal and public **CTF** challenges, documenting critical issues with clear impact, risk ratings, and practical fixes.
- Implemented **deep linking** with go_router so users can jump directly into key app screens (offers, order details, support) from links and notifications, improving re-engagement and overall navigation experience.

Flutter Developer Intern | Luminar Technolab

Ernakulam, India | Jun 2023 – Dec 2023

- Built and launched production-ready mobile applications, resulting in a 30% improvement in user engagement metrics post-launch.
- Connected Firebase services, including Authentication, Firestore, and Realtime Database, for secure user management and real-time data synchronization across clients.
- Collaborated closely with UI/UX designers to translate Figma mockups into pixel-perfect, responsive, and animated layouts using Flutter widgets.
- Leveraged GetX for state management, dependency injection, and route management, reducing code complexity by 25% compared to previous MVC patterns.
- Employed essential third-party Flutter plugins, including google_maps_flutter and location, to enhance app functionality with geolocation, routing, and interactive maps.

TECHNICAL SKILLS

Backend & Database: Firebase (Auth, Firestore, Realtime DB, Cloud Functions), **REST APIs**, **Django**, SQLite, Hive, Shared Preferences

Programming Languages: Dart (Expert), Python (Intermediate), Kotlin (Beginner), Java (Beginner), Swift (Beginner)

Core Flutter & Mobile: Flutter Framework, Widget Lifecycle, Responsive UI, Animations, Custom Painters, Platform Channels

State Management: Riverpod, BLoC/Cubit, Provider, GetX

DevOps & Tools: Git, Version Control, **GitHub Actions**, CI/CD, Codemagic, Fastlane, Postman, Figma, **Android Studio**, VS Code

Soft Skills: Agile/Scrum Methodologies, Critical Thinking, Team Collaboration, Code Review

Architecture & Testing: Clean Architecture (MVVM), TDD (Test-Driven Development), Unit Testing, Widget Testing, Integration Testing, Mockito

PROJECTS

Shrimp App (E-commerce)
- Architected a multi-role (Seller, Buyer, Admin and additional roles) e-commerce app using Django REST API and Riverpod, improving state predictability.
- Introduced Firebase Push Notifications and employed Flutter Flavors for efficient build management and role-specific functionality.

Ecommerce App (Full-Featured)
- Developed a full-featured e-commerce app with Django REST API, Riverpod, product catalogs, cart management, and smooth animations.
- Merged multiple third-party plugins for geolocation, mapping, and routing to create an intuitive, high-performance mobile application.

Meals App (Riverpod)
- Configured a recipe planner with Riverpod for reactive UI updates and a filtering system for dietary preferences.

Tourism App (Firebase)
- Built a location-aware tourism guide with a Firebase backend for real-time updates on destinations and events.
- Implemented offline caching using Hive to ensure seamless access to information without an internet connection.

Expense Tracker (SQLite)
- Created a comprehensive budgeting application using SQLite for robust, local-first financial data management.
- Combined graphical summaries with charts and visualizations to help users analyze spending patterns effectively.

Farmers Fresh Zone (Marketplace)
- Created a farmer-consumer marketplace with real-time order tracking, inventory management, and secure payment integration.
- Constructed a comprehensive admin panel for product and user management.

Music Player (Local State)
- Developed a full-featured audio player with playlist management, persistent state using Shared Preferences, and background playback.
- Crafted custom audio controls and saved user preferences and history locally.

EDUCATION

B.Sc. in Computer Science, University of Kerala | 2020 – 2023 | 6.1 CGPA
Higher Secondary (Computer Science), St. John's HSS Mattom | 2018 – 2020 | 77%
SSLC, HSS Chettikulangara | 2017 – 2018 | 90%

CERTIFICATIONS

Flutter & Dart - The Complete Guide [2024 Edition], Udemy | *Jan 2024*
Covered advanced topics including state management (BLoC, Riverpod), animations, and performance optimization.

Flutter for Beginners, Great learning
Comprehensive introduction covering Flutter and Dart fundamentals, widget architecture, and state management basics.

NACTEC Certification in Flutter
Recognized for excellence in cross-platform app development.

Flutter Hands-on Training, Luminar Technolab
Gained practical experience in full-stack app development, from UI design to backend integration.

Certificate of Participation, Internship Studio
Enhanced professional skills in teamwork, communication, and project management in a corporate environment.

ChatGPT & AI Hacks with MS Office, Skill Nation
Sharpened skills in integrating AI tools with MS Office for enhanced productivity and workflow automation.

DECLARATION & AVAILABILITY

As a dedicated Mobile Application Engineer, I am actively seeking mid-level to senior Flutter Developer opportunities. I am committed to writing clean, scalable, and testable code to build modern, high-performance UI experiences. Available for immediate interview and open to relocation for the right role.