Parvathi M

parvathi.appdeveloper@gmail.com — +91 8122360327 — Chennai, India
LinkedIn: linkedin.com/in/parvathi-m-30a859227 — GitHub: github.com/parvathi-developer

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Professional Summary

Flutter Architect and Mobile Platform Lead with **11+ years of experience** architecting, developing, and scaling enterprise-grade mobile applications across **Flutter, FlutterFlow, Android, and iOS**. Expert in **Clean Architecture, MVVM, BLoC, modular systems, real-time communication, AI integrations, security, and CI/CD**. Proven leader in owning mobile platforms end-to-end, mentoring teams, driving architectural governance, and delivering production-scale applications in healthcare, manufacturing, and enterprise domains.

Core Technical Skills

Languages: Dart, Kotlin, Java, SQL, JSON
Mobile Platforms: Flutter, FlutterFlow, Android (Jetpack Compose, XML), Xamarin (Legacy)
Architecture: Clean Architecture, MVVM, BLoC, Provider, Repository Pattern, Dependency Injection, Modular Architecture
Backend & APIs: REST, Retrofit, Dio, Firebase, GraphQL, STT, TTS, Google Cloud APIs
Databases: Firebase Firestore, SQLite, Hive, Room
Security: OAuth2, JWT, SSL Pinning, AES Encryption, Secure Storage
CI/CD: GitHub Actions, Bitbucket Pipelines, Jenkins
Testing: Unit, Widget, Integration Testing, TDD
Monitoring: Firebase Analytics, Crashlytics, DataDog
Methodologies: Agile, Scrum, SDLC, Architecture Reviews, Release Management

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Professional Experience

Flutter Architect / Team Lead – Mobile Engineering — Tech Mahindra

Bangalore, India   Dec 2024 – Present

- Architecting and leading a **large-scale enterprise mobile chat and collaboration platform** using **Flutter, FlutterFlow, Android, and iOS** for a global electronics manufacturing organization.

- Designed a **real-time multilingual communication system** enabling factory-line employees to collaborate in their preferred languages.

- Defined platform-wide **mobile architecture standards** including Clean Architecture, MVVM, BLoC, modularization, and dependency injection.

- Architected **role-based access control (RBAC)**, secure authentication, group administration, and permission management.

- Integrated **AI-powered BOT** features for policy discovery, workflow assistance, and complaint management.

- Implemented **Speech-to-Text (STT) and Text-to-Speech (TTS)** to support hands-free operation in industrial environments.

- Ensured scalability and performance using optimized networking, background services, and real-time streaming.

- Led a team of **5+ mobile engineers**, conducting architecture reviews, code reviews, sprint planning, and release management.

Mobile Architect / Senior Flutter Lead — Qurhealth Solutions Pvt Ltd

Remote / Chennai   Jul 2020 – Apr 2024

- Owned the **mobile architecture** for multiple healthcare products across Flutter and native platforms.

- Designed scalable, secure Flutter architecture integrated with Firebase, REST APIs, and analytics.

- Improved user engagement by **35%** and reduced crash rates by **15%**.

- Built reusable architecture modules, reducing development effort and improving delivery speed by **40%**.

- Acted as primary technical contact for mobile platforms, supporting releases, monitoring, and production incidents.

- Mentored a team of 6 developers and established coding standards and best practices.

Contract Mobile Developer — Object Frontier Software

Chennai, India   Feb 2020 – Jul 2020

- Developed enterprise Flutter healthcare modules with reusable UI components and API abstraction layers.

- Collaborated with backend and QA teams to deliver secure, production-ready features.

Senior Android Developer — UTH Dev Holding Software India

Chennai, India   Jun 2019 – May 2020

- Developed Android and Flutter applications with focus on performance, UI consistency, and scalability.

- Optimized rendering and reduced UI latency through architecture improvements.

Android Developer — HnS Technologies

Chennai, India   Nov 2016 – May 2019

- Developed the **Tata Smart Manual** Android application with offline-first architecture.

- Reduced application startup time by **20%** through performance tuning and code optimization.

Android Developer — TVS Next

Chennai, India   Aug 2014 – Oct 2016

- Delivered Android applications for clients including Equitas and Sulekha.

- Implemented offline sync, REST integrations, and UI optimizations.

Key Projects

GE Appliance: Haier – Every Voice Everywhere

FlutterFlow, Flutter, Firebase, STT, TTS, REST APIs, RBAC
Enterprise multilingual communication platform enabling real-time chat and voice interaction for factory-floor employees using FlutterFlow and Firebase.
Implemented Speech-to-Text, Text-to-Speech, role-based access control, and real-time Firestore messaging for scalable enterprise usage.

QurBook – Personalized Health Platform

Flutter, Dart, Bloc, Firebase, REST APIs, Offline Sync
Developed an AI-driven healthcare app delivering personalized care plans with secure API integration and offline-first architecture.
Improved user engagement and reliability using Bloc state management and Firebase analytics.
https://play.google.com/store/apps/details?id=com.ventechsolutions.myFHB

QurPro – Smart Doctor Consultation App

Flutter, Bloc, Firebase, Dio, Agora SDK, Video Calling
Built a telemedicine platform supporting video consultations, real-time chat, and patient data management.
Integrated secure authentication, scalable backend APIs, and live video using Agora SDK.
https://play.google.com/store/apps/details?id=com.ventechsolutions.goFHB

Ascent Insta – Bharat Benz

Kotlin, Jetpack Compose, MVVM, Android
Developed a high-performance Android application featuring 360-degree truck visualization and dynamic UI rendering.
Applied MVVM architecture and Jetpack Compose to improve performance, scalability, and UI consistency.

Tata Smart Manual – Interactive App for Cars

Xamarin.Forms, C#, MVC, Offline Storage
Designed and developed an interactive, offline-first digital car manual application for Tata Motors vehicles.
Optimized content rendering and synchronization to enhance user experience in low-network environments.
`https://play.google.com/store/apps/details?id=com.tml.knowyourcar`

Education

Bachelor of Engineering — Computer Science & Engineering
SVIST, Anna University, Tiruvallur   2010 – 2014