

Pathri Narayanan

pathrinarayananmdu@gmail.com | +91 9790061191
github.com/pathrinarayanan | linkedin.com/in/pathrinarayanan

Skills

Languages: C/C++, Java, Kotlin, Python

Technologies & Tools: Jetpack Compose, MVVM, LiveData, Room, Navigation, Paging, Retrofit, OkHttp, Coroutines, Flow, Dagger-Hilt, Firebase (Auth, Firestore, Crashlytics, Analytics, Remote Config, Cloud Messaging), SQLite, ExoPlayer, CameraX, TensorFlow Lite, Git, GitHub, GitHub Actions, Android Studio and Postman.

Work Experience

CaratLane, Chennai

Jun 2024 - Present

Software Development Engineer I

- Led the migration Search Page on Apps to enhance the customer experience by improving the search functionality on CaratLane platform by introducing new features such as recently viewed items, recent searches, Top collections, and a "continue your browsing" widget. It increases 20% of shortlisting the products from Search Page.
- Led a POP (Plan of Purchase) revamp of widgets on the home page Apps and this feature includes suggesting multiple offers based on upcoming user occasions like Birthday, Anniversary etc. This increases the enrollment of the POP plan of users to 8% within a week of its release.
- Led a migration Product details page from XML to compose on Apps with various widgets including image carousel , price details , review section , similar products and so on.
- Java, Kotlin , Jetpack Compose, XML , MVVM, Flow, Coroutines and so on.

CaratLane, Chennai

Dec 2023 -May 2024

Software Development Intern

- Led the migration my accounts page with organization of customer Profile data , account information, offers, points, profile completion, privacy policy , terms and conditions , FAQ, order details, Payment details, Refund details, POP details, call, email , whatsapp, custom chat and eGold informations.
- By consolidation of the data, leads to increase the customer to complete their profile and usage of available offer coupons.
- Worked on UI updation and improvements of over 30+ widgets throughout the Apps to increase the customer experience.

Education

TCE Madurai

Nov 2020 - May 2024

B.Tech. in Information Technology

CGPA:9.0/10

Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Deep Learning , Computer Vision, Android Development, Data Mining, Advance Data Structures and Algorithms, Information Security.

Project Work

- **Xrosstalk - Android Real-time Chatting Application (2021):** An Android real-time chatting application with emotion-based features with firebase as a backend for real-time synchronization of messages.Includes a unique emotion-based chatting functionality for enhanced user interaction.

Technologies: Firebase, Android Studio, Java, Real-time Database, UI/UX Design

- **Full-Stack Food Delivery App (2024)**: Developed a food delivery application using Kotlin and Jetpack Compose with Firebase Authentication and API handling. This App includes feature like Secure login/signup with Firebase authentication, Real-time restaurant data using Retrofit, Efficient state management for UI updates, Seamless order and checkout flow and Push notifications for order updates.

Technologies: Kotlin, Jetpack Compose, Firebase, Retrofit, Dagger Hilt, ViewModel, StateFlow, Coroutines & Flow

- **Reconnect - Contact Management App (2025)** : Developed a Tinder-style contact management app for organizing and reconnecting with meaningful contacts , grouping and deleting of unwanted contacts. Features includes - Swipe-based contact organization (Right: interested , Left: unwanted, Up: close friends), Bulk organization capabilities , local storing of data using dataStore and seamless local contacts integration

Technologies: Kotlin, Jetpack Compose, MVVM Architecture, DataStore, Contacts API, Material Design, Custom Animations, Coroutines

- **Modern Weather App (2025)** : Developed a dynamic weather app with real-time updates based on current location and smooth animations. The app includes Real-time weather data integration, Interactive UI animations using MotionLayout and Dynamic UI adaptation based on weather conditions.

Technologies: Kotlin, Jetpack Compose, Retrofit, MotionLayout, ViewModel, LiveData and Coroutines

- **Goal Tracker App (2025)**: Built a goal tracking application with Firebase includes user authentication, firebase firestore database for goal management and progress tracking and calendar streaks for goals.

Technologies: Kotlin, Jetpack Compose, Firebase Authentication, Firestore Database, MVVM Architecture, Material Design

Awards and Certificates

- **Lead Student Volunteer – Software Developer**: Successfully developed and deployed an automation system for Madurai Cyber Crime Police Station, streamlining complaint management using Flask & MongoDB. Features include NCRP complaint tracking, restricted unauthorized access, and improved case handling efficiency over a 6-month project.
- Data Science Professional Certificate on Coursera.
- Machine Learning , Deep Learning Specialization and TensorFlow Specialization on Coursera

Publications

- **Student Behavior Analysis in Classroom Using Facial Emotion Recognition (Sep 2024)**: Published in *Intelligent Computing Systems and Applications* book (pp. 215-229). Developed a system using computer vision & graph visualization to analyze student engagement and emotions in classrooms.