KARTHIKEYAN MUTHU

Software Developer

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Linkedin | GitHub | Portfolio

Education

Sri Ramakrishna Engineering College	Coimbatore, Tamil Nadu
Computer Science and Engineering BE	October 2020 – May 2024
CGPA: 8.53	

Experience

iOS Developer | Mallow Technologies, Coimbatore, Tamil Nadu   December 2024 - Present

- Reduced API response time by 30% using efficient caching, asynchronous methods, and real-time updates via Pusher within an **MVVM** architecture.

- Enhanced app performance by optimizing **Core Data** read and write operations, efficiently handling 9,000+ records offline without blocking the main thread.

- Developed a robust system of reusable UI components, ensuring consistent UI across various device orientations and platforms utilizing **Auto Layouts**

Projects / Open-Source

KaamHai – Workforce Solution | App   *React-Native, Redux, JavaScript*

- Collaborated closely with cross-functional teams to design and build scalable features, using **Redux** to ensure data persistence and consistency throughout the application.

- Developed a personalized user ID card and QR code system for seamless login to the website with user-specific information.

- Employed **React Navigation** with stack navigation for seamless transitions between screens, achieving an average screen transition time of under 150 milliseconds.

TrendFlix | GitHub | Demo App   *React-Native, Axios, Redux Toolkit, Redux Persist*

- Developed a React Native Expo app with advanced navigation, featuring popular movies and series, and offering sort and search filtering.

- Implemented **Redux** and **Redux Persist** to manage and store liked movies, ensuring 100% data persistence across sessions, and utilized **React Native Share** to enable sharing the liked movies list.

- Leveraged **Axios** for efficient API calls, reducing data retrieval time by 20%, and integrated React Native **Animatable** for engaging animations, cutting perceived load times by 1.5 seconds.

Medical File Classifier | GitHub   *Python, AWS*

- Designed a versatile project tailored for hospital settings, fostering efficient communication between doctors and patients.

- Implemented an automated transcription system that validates recorded audio and securely archives the results in an **AWS S3** bucket.

- Utilized the advanced features of the **Vosk** model which led to a 60% enhancement in speech pattern recognition accuracy.

Certifications

- iOS 17, SwiftUI 5, & Swift 5.9: Build iOS Apps From Scratch - **Udemy**
- Back-End application development with Node.js and express - **edX**

Key Skills

React Native	React JS	Swift
React Navigation	UIKit	JSON
RESTful APIs	JavaScript	Git