KARTHIKEYAN MUTHU

Software Developer

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Linkedin | GitHub

Education

Sri Ramakrishna Engineering College	Coimbatore, Tamil Nadu
Computer Science and Engineering BE	October 2020 – May 2024
CGPA: 8.43	

Internship

iOS Developer | Mallow Technologies, Coimbatore, Tamil Nadu   August 2023 - December 2023

- Developed user-friendly applications in Swift using the **MVVM** architecture for 6+ native iOS apps.
- Employed expertise in 3rd party SDKs and libraries to coordinate a smooth integration of serial RESTful API calls, resulting in a 30% enhancement in response time.

Projects / Open-Source

Password Manager | GitHub | Demo App   *React-Native, Async Storage, JavaScript*

- Engineered a CRUD application using React Native, **Context API** for global state management, and **Async Storage** for persistent password management with 100ms read/write speed.
- Improved user efficiency by integrating functionalities for copying and editing stored passwords, resulting in a 30% reduction in data entry time.
- 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.

Pokémon Profiler | GitHub   *Swift, UIKit, Cocoa-Pods, Cocoa-Touch, Core-Data*

- Implemented **Core Data** for data persistence leading to an improvement in app's overall performance by 40%.
- Demonstrated expertise in **Grand Central Dispatch** queues and multithreading asynchronously integrating APIs to use JSON data.
- Effectively optimized the system by significantly trimming down the response time to 1 second.

Certifications

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

Key Skills

React Native	React JS	Redux
React Navigation	Expo	JSON
RESTful APIs	JavaScript	Git