Ameena Fatima

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PROFESSIONAL SUMMARY

Experienced iOS and macOS Engineer with 3+ years of experience building reliable, user-friendly applications using Swift, SwiftUI, UIKit, and AppKit. Skilled in clean architecture, API integration, performance optimization, debugging, and App Store deployment, with a strong focus on maintainable code and polished user experiences.

PROFESSIONAL EXPERIENCE

Software Engineer - iOS / MacOS **August 2023 - Present**
Newsoftwares.net *Lahore, Pakistan*

- **Security Product Development:** Developed and maintained a sophisticated macOS security product, leveraging encryption and decryption technologies to ensure robust data protection, utilizing Swift and Cocoa frameworks.
- **Cloud Synchronization Integration:** Spearheaded the integration of leading cloud services, including Dropbox, Google Drive, and OneDrive, enabling seamless folder and file synchronization between the software product and the cloud.
- **Cross-Platform Third-Party Library Integration:** Successfully integrated a C++ library into the Swift project using Objective-C, ensuring smooth functionality on both macOS and iOS platforms.
- **Virtual Drive Development with File Provider:** Implemented Apple's File Provider framework to build a virtual drive system, enabling users to access and manage remotely stored files directly through Finder.
- **File System Extension and On-the-Fly Encryption:** Currently developing a macOS File System Extension for virtual drive functionality, including real-time encryption and decryption of files during access and transfer operations.
- **Endpoint Security – File and Folder Access Control:** Leveraged Apple's Endpoint Security framework to monitor file-system events and implement permission-based locking for protected files and folders, restricting unauthorized access in real time.
- **In-App Purchase For Multiple Accounts:** Implemented in-app purchase functionality for multiple accounts in the same product .

PROJECTS

(Company Project) **Newsoftwares.net**

FolderLock 10 (Available on App Store)

- Contributed to both frontend (UI/UX) and backend (API/database) development, ensuring smooth end-to-end functionality.
- Developed secure authentication and authorization flows to protect sensitive user data.
- Implemented REST API endpoints and optimized database queries to improve response times.
- Worked closely with QA and senior engineers to debug and resolve performance bottlenecks.
- Collaborated in Agile sprints, participating in code reviews and feature planning to deliver on time.
- Integrated third-party libraries and APIs, expanding product functionality without compromising stability.
- Enhanced error handling and logging, improving maintainability and reducing downtime.

(Personal Projects)

- **Clipboard - macOS app (Available on App Store)**
  Key Features: Clipboard History, Quick Search, Smart Organization, Support Multiple Types, Fast Access.
- **CleanDisk - macOS app (Available on App Store)**
  Key Features: Duplicate Scanning on Hash Basis, Cache Cleaning, Large Old Files listing
- **BizContact - iOS app (Available on App Store)**
  Key Features: Business Card OCR & Scanning, Apple Contacts Integration and much more

EDUCATION

University of the Punjab (PU) **Lahore, Pakistan**
Bachelors in Information Technology (BS IT) **2019 - 2023**

SKILLS

iOS Engineering, Swift, UIKit, SwiftUI, iOS SDK, Xcode, MVVM, MVC, Clean Architecture, Dependency Injection, REST APIs, JSON, Async/Await, Grand Central Dispatch (GCD), Unit Testing (XCTest), Git, CI/CD Pipelines, AI-Assisted Development Tools (GitHub Copilot, ChatGPT, Cursor)