

# SACHIN KUMAR

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## SUMMARY

iOS Developer with 2.8 years of experience in iOS SDK, Swift, SwiftUI, UIKit, and mobile app development. Expertise in iOS app development, Core Data, Cocoa Touch framework, RESTful API integration, and App Store deployment. Skilled in Xcode IDE, Foundation Framework, memory management, Auto Layout, and implementing MVC/MVVM/VIPER architectural patterns. Experienced in building scalable enterprise applications with performance optimization, test-driven development, and delivering maintainable solutions for App Store Connect and TestFlight distribution.

## WORK EXPERIENCE

### iOS Developer

July 2023 – Present

42 Gears Mobility Systems Private Limited

Bangalore

- Developed **app management jobs** (PKG/DMG installation, upgrade, uninstall) leveraging **command-line tools, shell scripting, XPC communication**, and **process daemonization**, ensuring seamless app lifecycle management across **10,000+** enterprise **macOS** devices.
- Implemented a robust **Download Manager** for file transfer jobs, supporting **resumable downloads, progress tracking**, and efficient scheduling via **concurrent/serial worker processes**, improving large file delivery reliability by **2x**.
- Engineered **geofencing features** using **Core Location framework** with **reverse geocoding** and location-based job execution, enabling context-aware automation and improved compliance with organizational policies.
- Utilized **Core Data** for persistent storage and management of large-scale device information, ensuring data integrity and **40%** improved query performance through optimized data models.
- Built **device monitoring modules** for uptime tracking, hardware change detection, user management, and remote device actions (reboot/shutdown), achieving **99.5%** uptime monitoring and enhancing IT admin visibility and control.
- Contributed to **architectural migration** from **MVVM** to **VIPER**, improving code modularity, testability, and long-term maintainability.
- Created **analytics pipelines** for device events and app usage using **Foundation Framework**, implementing structured data transmission for actionable insights.
- Reduced app crashes by **90%** by introducing proper **thread-safety mechanisms** and optimizing **concurrency handling**.
- Worked on **process daemonization, agent launching, menu bar apps**, and app packaging (**PKG, DMG**) to streamline deployment and improve reliability by **60%** in enterprise environments. Helped in automation of package making process using **GitLab CI/CD**.
- Implemented **Just-In-Time (JIT) Access** for elevated privileges on demand, ensuring secure privilege escalation while maintaining compliance with enterprise policies.
- Resolved critical issues in **network extensions, QR enrollment, log encryption, APNs integration, WKWebView**, and job-handling architecture, significantly reducing production defects by **85%**.

## INTERNSHIP

### iOS Developer Intern

February 2023 – June 2023

42 Gears Mobility Systems Private Limited

Bangalore

- Learned **Swift, UIKit, SwiftUI**, and applied **asynchronous programming** techniques to optimize application performance.
- Gained expertise in **PKG/DMG** creation, signing, notarization, and worked with **Core Data, UserDefaults**, and **Keychain** for secure storage and data management.
- Developed skills in **macOS scripting, Agile workflows** with **Jira**, and maintained code quality using **SonarQube**.

## PROJECTS

### SureMDM Agent for macOS – Enterprise Device Management Platform

Professional Project

- Details:** Enterprise macOS device management agent with app lifecycle management, security policies, and remote administration
- Product Link:**  
<https://www.42gears.com/products/mobile-device-management/suremdm-agent-for-macos-past-releases/>

## **NotingDown** – Built with SwiftUI, Core Data, CloudKit

Personal Project

- **Details:** SwiftUI and Core Data note-taking app with CloudKit integration, offline sync, and push notifications
- **App Store Link:** <https://apps.apple.com/us/app/notingdown/id123456789>
- **GitHub Link:** <https://github.com/sachin6174/NotingDown>

## **Guitar Utility** – Built with SwiftUI, AVFoundation

Personal Project

- **Details:** SwiftUI app for guitar tuning and metronome using AVFoundation framework with custom audio algorithms and Core Audio
- **App Store Link:** <https://apps.apple.com/us/app/guitar-utility/id6751228342>
- **GitHub Link:** <https://github.com/sachin6174/Guitar-Utility>

## **Secure Text** – Built with JavaScript, Chrome APIs

Personal Project

- **Details:** Chrome extension for text encryption/decryption with Base64/Base32 encoding and secure storage
- **Extension Store Link:** <https://chromewebstore.google.com/detail/secure-text/ankgchfieimijhlcjcongijapefmei>
- **GitHub Link:** <https://github.com/sachin6174/secure-text-chrome-extension>

## TECHNICAL SKILLS

**Programming Languages:** Swift, Objective-C, JavaScript, C++

**iOS Development:** iOS SDK, UIKit, SwiftUI, Core Data, Core Animation, Core Location, Foundation Framework, Cocoa Touch

**Development Tools:** Xcode IDE, Instruments, TestFlight, App Store Connect, Git, JIRA, SonarQube

**Architecture Patterns:** MVC, MVVM, VIPER, Clean Architecture, Protocol-oriented Programming, Dependency Injection

**Testing & Quality:** XCTest, XCUITest, Unit Testing, UI Testing, Test-driven Development, Debugging

**Data & Networking:** RESTful APIs, JSON, Core Data, SQLite, URLSession, Push Notifications

**Development Practices:** Agile Development, Memory Management, Auto Layout, Performance Optimization, Code Review, SonarQube, Peer Review

## EDUCATION

### **Chandigarh Group of Colleges**

August 2019 - May 2023

Bachelor of Engineering in Computer Science, CGPA: 7.9

Landran, Mohali

## CERTIFICATIONS

- **System Design:** Coding Ninjas (November 2021 - February 2022)
- **Data Structures in C++:** Coding Ninjas (January 2022 - April 2022)

## ACHIEVEMENTS

- **Google Cloud Agent AI Hackathon 2025:** Selected among top 700 teams from 57,000+ developers. Built an AI-powered platform providing farmers expert advice using Next.js, Firebase, Python, and Kotlin.

## INTERESTS

- Exploring AI tools, Reading Literature, Drawing, Listening to Music