

SACHIN KUMAR

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SUMMARY

iOS Software Engineer with 3 years of experience in iOS SDK, Swift, SwiftUI, UIKit, and mobile app development. Expertise in MacOS/iOS app development, Core Data, Combine, Swift Concurrency, 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, preventing **200+ policy violations monthly**, reducing security incidents by **40%**, and ensuring **100% data compliance** in restricted zones.
- 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**, reducing critical bugs by **70%**, decreasing code coupling by **60%**, and improving test coverage from **40%** while enhancing code modularity and long-term maintainability.
- Created **analytics pipelines** for device events and app usage using **Foundation Framework** with efficient **Core Data** operations to save entries, improving device health tracking by **85%** and enhancing IT decision-making by **40%** through 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 on-demand elevated privileges, automating **95%** of admin access workflows, reducing IT team workload by **60%**, and improving user productivity by **40%** while maintaining secure privilege escalation and enterprise policy compliance.
- Resolved critical issues in **network extensions, QR enrollment, log encryption, APNs integration, WKWebView**, and job-handling architecture, significantly reducing production defects by **85%**.
- Engineered an internal **debugger & QA utility** adopted by **20+ engineers**, featuring **real-time log parsing, job status tracking**, and **payload inspection**. Enabled direct **Core Data/UserDefaults manipulation** and **secure data decryption**, slashing debugging cycles by **40%** and accelerating feature verification.

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
- **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**, achieving **90% tuning accuracy**
- **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, Combine, Swift Concurrency, Core Data, Core Location, Foundation Framework

Development Tools: Xcode, Instruments, SPM, CocoaPods, GitLab CI/CD, 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, Firebase, 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) - Completed by learning core concepts including scalability, load balancing, database design, and microservices architecture, securing **90%+** in assessment
- **Data Structures in C++:** Coding Ninjas (January 2022 - April 2022) - Completed by learning core concepts including arrays, linked lists, trees, graphs, and algorithms, securing **95%+** in assessment

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