

SHOBHIT BANSAL

iOS Software Engineer | Swift | UIKit | Core Data | BLE

Mohali, Punjab, India | +91-88376-46949 | shobhitbansal.chd@gmail.com

linkedin.com/in/shobhitbansal2002 | github.com/ShobhitB2002 | shobhitbansal2002.vercel.app

PROFESSIONAL SUMMARY

iOS Software Engineer with 3 years of experience (including professional training) designing, developing, and maintaining production-grade mobile applications for global Fortune 500 brands including HP, Kodak, and Polaroid. Owns 10 live App Store applications with 120,000+ combined ratings across 28 languages and global availability. Core expertise in Swift, Objective-C, UIKit, Core Data, CoreBluetooth, EAAccessory, and OTA firmware integration. AI-augmented workflow using Cursor AI, Claude Code, and GitHub Copilot to accelerate delivery while retaining full engineering ownership of architecture and code quality.

TECHNICAL SKILLS

Languages: Swift, Objective-C, Dart/Flutter

iOS Frameworks: UIKit, SwiftUI, Core Data, CoreBluetooth, EAAccessory, Combine, GCD, Concurrency, AutoLayout

Architecture: MVVM, MVC, Delegate Pattern, Repository Pattern, Modular Architecture, Clean Code

Performance: Xcode Instruments, Memory Leak Resolution, Retain Cycle Debugging, Crash Analysis

Connected Devices: BLE, OTA Firmware Updates, Hardware Communication, IoT, Method Channels

Tools: Xcode, Git, SourceTree, Firebase, CocoaPods, Swift Package Manager, Postman, Asana

AI Tools: Cursor AI, Claude Code, GitHub Copilot, Windsurf, ChatGPT

Cross-Platform: Flutter, Dart, Method Channels, Native iOS-Flutter Bridges

PROFESSIONAL EXPERIENCE

iOS Developer

C+A Global India | Jan 2024 - Present

- Own development and maintenance of 10 live iOS applications across HP, Kodak, and Polaroid ecosystems - 120,000+ combined App Store ratings, 28 languages, global distribution.
- Build and maintain Swift and Objective-C codebases covering BLE communication, hardware integration, image processing, offline data handling, and App Store releases.
- Implemented Core Data offline-first sync engine that reduced network dependency and improved app responsiveness across photo-delivery workflows.
- Integrated 4 printer models from scratch using CoreBluetooth and EAAccessory - device discovery, pairing, command communication, and reliable data transfer.
- Engineered OTA firmware update flows with packet fragmentation, progress tracking, and error recovery, collaborating with Chinese hardware engineering teams.
- Developed interactive photo-editing features including gestures, transformations, stickers, frames, and text customization across multiple apps.
- Resolved production crashes, memory leaks, and retain cycles using Xcode Instruments across iOS 16/17/18 compatibility updates.
- Integrated a new printer model end-to-end in 3 weeks as solo engineer, coordinating directly with US QA and international hardware teams.
- Created Flutter Method Channel bridges exposing native Swift BLE functionality to cross-platform application layers.
- Applied AI-augmented workflows (Cursor AI, Claude Code, Copilot) for Objective-C modernization, debugging, and accelerated feature delivery.

iOS Trainee

CS Soft Solutions Pvt. Ltd. | Jul 2023 - Dec 2023

- Completed professional iOS training covering Swift, UIKit, AutoLayout, MVC, ARC, app lifecycle, and Core Data.

- Delivered a paid freelance Core Data application for a Canadian client (GitHub: [employeedatabase-ios](#)).

KEY PROJECTS

HP, Kodak & Polaroid Ecosystem - 10 Live Production Apps

Stack: Swift, Objective-C, UIKit, CoreBluetooth, EAAccessory, Core Data

- Apps: HP Sprocket, Kodak Smile, Kodak Smile Classic, Kodak STEP Prints, Polaroid Mint, Polaroid Zip, Polaroid Snaptouch, Polaroid Pop.
- Full ownership: feature development, BLE integration, performance optimization, App Store release management, and legacy maintenance.

Cross-Platform Printer Application - Internal Project

Stack: Swift, Flutter, Dart, Method Channels, CoreBluetooth, Android

- Built native iOS BLE architecture independently; expanded to Flutter and Android using AI-assisted development, enabling cross-platform hardware communication.

employeedatabase-ios - Paid Freelance Project

Stack: Swift, UIKit, Core Data

- Delivered a fully functional Core Data employee-management application for a Canadian client. Available on GitHub.

Forge Fitness Tracker - Personal Project

Stack: Flutter, Dart, Drift (SQLite), Provider, fl_chart

- Built complete fitness app with workout tracking, TDEE calculations, body-composition analysis, progress charts, and a 15-table local database. GitHub: [ShobhitB2002/forg](#).

EDUCATION

Master of Computer Applications (MCA) | Lovely Professional University | Expected Sep 2027

Bachelor of Computer Applications (BCA) | Swami Vivekanand Institute of Engineering & Technology | 2021 - 2024