

# ARPIT DWIVEDI

Software Developer - iOS Development

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## Executive Summary

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iOS Developer with 2+ years driving measurable business impact through performance optimization and strategic SDK development. Delivered enterprise solutions increasing DAU by 100% while achieving 99.5% crash-free sessions and reducing memory footprint by 22%. Expertise in Swift, Objective-C, and iOS frameworks with proven ability to lead technical initiatives.

## Professional Experience

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### Bobble AI

*Software Developer*

**March 2022 – Present**

*Gurugram, Haryana, India*

- **Revenue Impact:** Architected and delivered enterprise-grade custom keyboard SDK to 5+ major clients, driving significant revenue growth through enhanced monetization opportunities and seamless third-party integrations
- **Performance Excellence:** Spearheaded comprehensive performance optimization initiative, improving crash-free users from 68% to 93% and crash-free sessions from 92% to 99.5% while reducing memory footprint from 40MB to 30-33MB
- **User Growth:** Led technical initiatives resulting in 100% increase in Daily Active Users (DAU) and 20% improvement in user retention through strategic feature development and performance enhancements
- **Technical Leadership:** Designed modular SDK architecture using Swift Package Manager (SPM), ensuring scalability across multiple client implementations and maintaining compatibility with latest Swift standards
- **Rapid Delivery:** Successfully delivered complex standalone SDK solution within aggressive 1-week timeline, demonstrating exceptional project management and technical execution capabilities
- **Platform Expertise:** Mastered advanced iOS frameworks including UIKit, TextKit, CoreData, SwiftUI, implementing sophisticated keyboard extensions with Auto-Layout and Internationalization support
- **Concurrency Architecture:** Implemented robust multi-threading solutions using GCD, NSOperationQueue, and DispatchQueue with advanced synchronization using locks, semaphores, and atomic operations
- **Integration Strategy:** Led integration of third-party libraries and APIs, optimizing keyboard performance and memory management while maintaining enterprise-grade stability

## Strategic Projects & Technical Leadership

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### ChatConnect - Enterprise Messaging Platform

- **Scalability Achievement:** Architected and led end-to-end development of real-time messaging platform capable of handling 10,000+ concurrent users with sub-second message delivery
- **Technical Innovation:** Implemented advanced offline messaging, push notifications, and end-to-end encryption using Firebase Realtime Database and custom Swift/Objective-C solutions
- **Security Leadership:** Designed robust data privacy framework with encryption protocols, ensuring enterprise-grade security standards and regulatory compliance

### ARShopify - Augmented Commerce Solution

- **Innovation Impact:** Pioneered AR shopping experience using ARKit and SwiftUI, enabling virtual try-on functionality that increased user engagement by 40% and conversion rates by 25%
- **Integration Excellence:** Architected seamless backend API integration for real-time product data, pricing, and inventory management across multiple e-commerce platforms
- **User Experience:** Designed sophisticated animation framework and realistic rendering pipeline, delivering premium visual experience that exceeded client expectations

### RideSaver - Algorithm-Driven Mobility Platform

- **Algorithmic Innovation:** Implemented advanced route optimization using Dijkstra's algorithm and A\* search, reducing average travel time by 30% and improving resource utilization by 35%
- **Real-time Architecture:** Built dynamic route planning system integrating live traffic data and user requests, with intelligent driver-rider matching based on proximity and preference algorithms
- **Business Impact:** Delivered measurable improvements in operational efficiency and customer satisfaction scores, contributing to platform's competitive advantage in ride-sharing market

## Education & Leadership

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### Lovely Professional University

*B.Tech Computer Science Engineering*

**Punjab, India**

*Distinguished Graduate*

- **Leadership Roles:** Student Head Coordinator at Grip Club, OB Member of Triple T Club - Led technical initiatives and mentored junior developers in mobile app development

### City Montessori School

*Higher Secondary Education*

**Lucknow, India**

*Academic Excellence*

## Technical Expertise & Architecture

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**Core Languages & Frameworks:** Swift, Objective-C, SwiftUI, UIKit, C++, Java, Dart, JavaScript

**iOS Specialization:** ARKit, MLKit, SceneKit, SpriteKit, Core Data, Combine, RxSwift, Firebase, Concurrency, GCD

**Architecture & Patterns:** MVP, MVC, MVVM, SDK Development, Swift Package Manager, Multithreading, Socket Programming

**Cloud & Backend:** Firebase, CloudKit, APN's, REST APIs, Real-time Databases, MongoDB, MySQL, Realm

**Development Tools:** Git & GitHub, Jira, Xcode, Performance Profiling, Memory Management, Auto-Layout

**Cross-Platform & Web:** Flutter, HTML, CSS, Bootstrap, NodeJs, PL/SQL

## Professional Achievements & Recognition

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**Industry Certifications:** Advanced Data Structures & Algorithms (Coding Ninjas), Git & GitHub (Google), Full Stack Development (Board Infinity), Technical Support Fundamentals (Google)

**Competitive Programming:** 4-Star Codeforces Expert, Gold Badge Problem Solving (HackerRank), Top 534/24,600 Codechef March Challenge 2021, Multiple Gold Badges in C++ & Algorithms

**Technical Recognition:** Consistent performer in algorithmic challenges, demonstrating strong problem-solving capabilities and mathematical foundation essential for scalable software architecture