

JATIN SHRIVASTAVA

iOS Engineer | Mobile Engineer | Swift • SwiftUI • Kotlin • Flutter

jatin_shrivastava@outlook.com | [linkedin.com/in/jatin-shrivastava](https://www.linkedin.com/in/jatin-shrivastava) | jatinshrivastava.github.io | Arlington, TX

iOS engineer with 4+ years building production systems at scale — Swift concurrency and offline-first architecture at Paycom serving 200k+ enterprise users, cross-platform mobile across 5 apps reaching over 1M downloads, and an independent on-device ML pipeline built entirely with Apple-native frameworks. Focused on the hard problems: real-time systems, background task orchestration, and shipping things that work at scale.

EXPERIENCE

Paycom

Irving, TX

Software Developer IV

May 2024 – Present

- **Architected and shipped offline-first background sync** using BGProcessingTask + Core Data, enabling full app functionality without network connectivity for 200k+ enterprise users
- Contributed to migration from **GCD to Swift async/await** concurrency, refactoring assigned modules to eliminate race conditions and standardize thread safety patterns
- Developed new features following established **MVVM + Repository + Coordinator** architecture, maintaining consistency and testability across a large-scale enterprise iOS codebase
- Contributed to **UI test coverage** using Robot pattern (XCTest), adding 80+ test commits; resolved iOS 18 keyboard regression, Core Data merge crashes, and view controller memory leaks
- Maintained **GitLab CI/CD + Fastlane** pipeline; delivered 407 commits across 12 months (35k+ insertions) with 20% testing commit ratio reflecting consistent quality-first engineering
- Directly oversaw **4 iOS interns** with cross-team support to a cohort of 8 software development interns through end-to-end CRM app delivery (summer 2025)
- Captained team Androidus MaximiOS to **Best Performance** award + individual **MVP** at 2025 codeathon; member of team Brotherhood of Mobile — **Most Innovative + Runners Up** at 2024 codeathon

Software Development Intern

May 2023 – Aug 2023 | Grapevine, TX

- Designed interactive geofence configuration tool using **MapKit** — custom map overlays supporting circular and irregular polygon boundaries with draggable vertex controls for precise boundary editing
- Built automated punch testing engine using **CLLocationManager** for real-time location tracking; persisted test sessions with **Realm** and surfaced inside/outside accuracy metrics via **Swift Charts**

Athmin Technologies

Noida, India

Member of Technical Staff (MTS-1 → MTS-2)

Jun 2020 – Jul 2022

- Shipped and maintained **5 production iOS and Android apps** across App Store and Play Store in healthtech, proptech, and B2B SaaS, collectively reaching **over 1M downloads**
- Built core features in **Illuminate Health** (healthtech): medication management with drug interaction checks, real-time **WebSocket chat** (Starscream), APNS/FCM push notifications, and **AWS Cognito/S3/Lambda** integration
- Resolved critical **RealmSwift threading crash** (`RLMException`) in production — traced to cross-thread object access, fixed using write transactions and observable patterns; resolved Realm schema migration crash and Crashlytics dSYM upload issues
- Architected end-to-end **VoIP calling on Flutter + iOS**: VoIP push (PushKit) → CallKit native UI → Flutter Method Channel bridge → Jitsi Meet SDK; designed call accept/decline and background handling across both platforms
- Built **Pronnel CRM** features: WebSocket live dashboard updates, deep linking (Universal Links + App Links), AWS S3 filesystem with file versioning, and a reusable **custom filter widget** adopted across multiple screens

Anant Jigyasa Education Foundation

Greater Noida, India

Software Development Intern

Jun 2019 – Nov 2019

- Built full-stack **Django** web app with SQL database design, HTML/CSS mobile-optimized frontend, and backend API integration

TECHNICAL SKILLS

Mobile

Swift, SwiftUI, UIKit, Kotlin, Flutter, Dart

Architecture

MVVM, Repository Pattern, Coordinator Pattern, Dependency Injection

Concurrency	async/await, Combine, GCD, @MainActor, BGProcessingTask
AI / ML	CoreML, Vision Framework, DeepLabV3, FastViT, AI-Assisted Development, Prompt Engineering
Apple Frameworks	Core Data, SwiftData, Core Location, MapKit, BackgroundTasks, CallKit, PushKit
Real-time	WebSockets, MQTT, VoIP Push Notifications, Firebase Cloud Messaging
Testing	XCTest, Unit Testing, UI Testing, Robot Pattern, Mock Injection, Leak Testing
Tools & Cloud	Xcode, Fastlane, GitLab CI/CD, SwiftLint, Firebase, AWS (S3, Cognito, Lambda), REST APIs

PROJECTS

- DailyRobe** — AI-Powered Wardrobe iOS App Swift • SwiftUI • CoreML • Vision • SwiftData
- On-device ML pipeline: **DeepLabV3** semantic segmentation for background removal + **FastViT Vision Transformer** for feature extraction — zero third-party dependencies, entirely Apple-native frameworks
 - Custom CV algorithms: **radial center-weighted HSL sampling** for color detection; **variance + edge transition analysis** for pattern classification; multi-tier fallback (neural → Core Image → geometric heuristics)
 - SwiftData persistence (3 models), NSCache LRU image caching (50MB), GCD background processing; ~2,600 lines Swift, 17+ SwiftUI views, deterministic outfit generation via **FNV-1a hashing**

EDUCATION

Master of Science, Computer Science Aug 2022 – May 2024 | Arlington, TX
The University of Texas at Arlington

Bachelor of Technology, Computer Science & Engineering Jul 2016 – May 2020 | Greater Noida, India
Dr. A.P.J. Abdul Kalam Technical University

AWARDS & RECOGNITION

- **MVP Award** — Paycom Codeathon 2025, Androidus MaximiOS (Individual)
- **Best Performance** — Paycom Codeathon 2025, Androidus MaximiOS (Team)
- **Most Innovative** — Paycom Codeathon 2024, Brotherhood of Mobile (Team)
- **Runners Up** — Paycom Codeathon 2024, Brotherhood of Mobile (Team)
- **Outstanding Performance** — Athmin Technologies, 2021