

DIVITH SELVAM

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SUMMARY

2026 AI & Data Science graduate with software engineering experience in application and backend development. Builds cross-platform mobile apps with React Native and TypeScript, alongside native Android and iOS apps in Kotlin and Swift. Works with .NET, PostgreSQL, and Redis for authenticated APIs and device synchronization.

SKILLS

Languages	TypeScript, Kotlin, Swift, C#, Python, SQL
Cross-Platform	React Native, Expo
Android	Jetpack Compose, Coroutines/Flow, Room, WorkManager, CameraX
iOS	SwiftUI, SwiftData, async/await, Keychain, APNs
Backend & Data	.NET, NestJS, REST APIs, PostgreSQL, Redis, WebSockets
Mobile Platform	Offline Sync, Push Notifications, Deep Linking, Background Tasks, Secure Storage
Testing & Delivery	Compose UI Testing, XCTest, React Native Testing Library, Xcode Instruments, GitHub Actions, CI/CD

PROJECTS

Cross-Platform Field Operations App Oct 2025–May 2026

React Native · TypeScript · SQLite · .NET

- Built an Android and iOS application for field workflows with local persistence and authenticated .NET APIs, keeping core screens usable without a reliable connection.
- Added queued writes and sync recovery for offline work, then integrated push notifications, deep links, secure credential storage, and native device features.

Mobile Backend & Sync Platform Jun 2025–Dec 2025

C# · .NET · PostgreSQL · Redis · WebSockets

- Built backend APIs for accounts, device sessions, field records, media uploads, and synchronization across mobile clients.
- Implemented OAuth/OIDC sessions and idempotent sync endpoints, with Redis-backed background notification work and WebSocket updates for connected clients.

Native Android Inventory & Barcode App May 2025–Sep 2025

Kotlin · Jetpack Compose · Room · WorkManager · CameraX

- Built a native Android inventory application in Jetpack Compose with barcode capture, state-driven screens, and Room as the local source of truth.
- Used WorkManager for deferred synchronization and retry handling, with adaptive layouts for phones, tablets, and foldable devices.

Native iOS Document & Receipt Vault Mar 2025–Jun 2025

Swift · SwiftUI · SwiftData · VisionKit · Keychain

- Built a SwiftUI application for scanning and organizing documents with native capture, SwiftData persistence, and async/await networking.
- Stored credentials in Keychain, handled background uploads and navigation from notifications, and profiled responsiveness with Instruments.

EXPERIENCE

CHN Technologies, Software Engineer Intern | Coimbatore, India Dec 2025–Present

- Refactored React, Django, and NestJS service boundaries and REST API flows to simplify maintenance across the application.
- Redesigned PostgreSQL schemas and composite indexes after reviewing query patterns and affected workloads.
- Automated Docker build and release workflows in CI/CD, replacing manual deployment steps.

Wise Work, Software Engineer Intern | Bengaluru, India Sep 2024–Oct 2025

- Engineered reusable Blazor/.NET components for shared full-stack application workflows.
- Profiled SQL joins, indexes, and response payloads to identify query and execution bottlenecks.
- Shaped authenticated API and data workflows, contributing to API contracts and service refactoring.

LEADERSHIP & COMMUNITY

Independent Design Work 2026

- Published two themes in Xiaomi's designer ecosystem, reaching **10M+ views and 2.3K followers** while refining interface and UX details.

Technical Mentorship Aug 2025

- Led practical sessions for interns on Git/GitHub, React, deployment, authentication, APIs, and documentation.

EDUCATION

SNS College of Engineering, B.Tech — AI & Data Science | Coimbatore, India May 2026