

Pushpinder Pal Singh

portfolio | github | linkedin | hi@swifti.ng | Sacramento, CA

Product Engineer with 3+ years in mobile engineering and 6+ years shipping indie iOS apps.

EXPERIENCE

Independent Product Engineer | PROMPTSIDE STUDIO

MAY '20 – PRESENT

- Built and shipped 5 independent iOS apps, with 2 currently available on the App Store.
- Launched *RetroBudget*, a *SwiftUI* AI spend tracker with *RevenueCat* subscriptions and paying users.
- Built and open-sourced *Excalidraw CLI*, reaching 290+ GitHub stars.

CLIENT: BARKIE.AI

JUN '25 – OCT '25

- Took Barkie.ai from zero to an internal iOS alpha in 2 weeks as the sole iOS engineer.
- Advanced the app to internal beta with on-device *Core ML*/*Vision* scorecard scanning and *GHIN API* synchronization.
- Established *CI/CD* to automate builds, testing, and *TestFlight* distribution.

Software Engineer, Mobile | GOJEK

MAY '22 – AUG '24

- Revamped Help Center UI in *UIKit*, reducing support queries by 15%.
- Built a reusable PIN auth SDK in *Swift* using *VIPER*, adopted across 3 Gojek apps.
- Shipped GoPay *Flutter* features and Server-Driven UI, serving 130M daily users.
- Integrated *Protobuf*-based analytics, cutting third-party dependencies and costs by 30%.

iOS Developer | GOOGLE SUMMER OF CODE - VIDEO LAN

JUN '21 – AUG '21

- Built VLC for iOS's Continue Watching media-library section in *UIKit*, enabling users to resume recently played videos.
- Fixed a Cast UI bug that left the external playback view visible after media resumed locally.

PROJECTS

Airport Wait Times | GLOBAL AIRPORT WAIT-TIME PLATFORM - [DEMO](#)

- Built a map-first platform with normalized wait-time coverage for 100+ airports across 60+ source integrations.
- Designed event-driven *Cloudflare Workers* ingestion with *D1*, *Queues*, *Cron*, *OpenAPI* validation, and fixture-based *CI*.

Holder | SECURE CARD VAULT - [APP STORE](#)

- Open-sourced an iOS card vault with *Keychain* sync, biometric auth, and 99.8% crash-free sessions.
- Built a privacy-safe *WidgetKit* extension for quick card access, exposing only redacted metadata outside the app.

OPEN SOURCE

SwiftLang | THE SWIFT PROGRAMMING LANGUAGE - [GITHUB](#)

PRESENT

- Improved Swift build-system diagnostics by making compiler failure modes easier to understand.
- Added Apple Clang compatibility checks and removed unsupported flags to reduce build issues across toolchains.

SKILLS

Mobile: Swift, SwiftUI, UIKit, Swift Concurrency, Flutter, iOS SDKs, TestFlight

AI/ML & LLMs: Core ML, Vision, on-device AI, structured outputs, OpenRouter, AI agent tooling

Backend & Tools: REST APIs, Protobuf, Server-Driven UI, TypeScript, CI/CD, RevenueCat, CLI/npm tooling

EDUCATION

Master's in Computer Science | CALIFORNIA STATE UNIVERSITY

AUG '24 – DEC '26

- Built *ChartLLM*, a tool-augmented chart analysis system achieving 100% accuracy across 26 statistical tasks.
- Placed 112th of 4,894 teams in the National Cyber League cybersecurity competition.

Technology Entrepreneurship | STANFORD UNIVERSITY

JUN '25 – AUG '25

- Prototyped *Rosie*, an ESP32-C3 storytelling device designed to reduce children's bedtime screen use.
- Conducted customer discovery, competitive analysis, and outreach to local schools for product validation.

BE in Computer Engineering | DELHI UNIVERSITY

AUG '18 – MAY '22

- Co-authored 2 peer-reviewed papers on blockchain-secured routing for opportunistic IoT, published by IEEE and Springer.
- Led open-source and mobile initiatives and helped ship a Flutter campus app used by 10,000 daily users.

AWARDS

Smart India Hackathon | NATIONAL WINNER: AI SYSTEM FOR LIGHTING AND HVAC OPTIMIZATION.

2021