Pushpinder Pal Singh

swifti.ng | github/swiftlysingh
pushpinderpal19@gmail.com | +1 (916) 810-1905 | Sacramento, CA

EDUCATION

MS IN COMPUTER SCIENCE | California State University
August 2024 - May 2026 (Expected) | Sacramento, California

BE IN COMPUTER ENGINEERING | Netaji Subhas University of Technology
Aug 2018 - May 2022 | New Delhi, IN

EXPERIENCE

SOFTWARE ENGINEER - MOBILE | GOJEK
May 2022 – August 2024

- Revamped Help Center UI, improving usability and reducing support queries by 15%.
- Built a PIN-based auth framework, enabling a single PIN across multiple GoTo apps, reducing development time by 20%.
- Co-developed the GoPay app in Flutter, supporting 130M daily users with an enhanced user experience.
- Implemented a Server Driven UI for GoPay's homepage, enabling dynamic updates without app releases.
- Integrated an in-house analytics framework, reducing third-party dependencies and cutting costs by 30%.

SWIFT DEVELOPER | Google Summer of Code - VideoLAN
June 2021 – August 2021

- Added the "Continue Watching" feature in VLC media player for iOS, enhancing user retention and engagement.
- Improved UI/UX using Swift, aligning with Apple's design guidelines for a more intuitive user experience.
- Participated in code reviews, ensuring adherence to best practices and maintaining code quality.
- Fixed critical bugs, increasing the stability and performance of the VLC iOS app.
- Contributed to documentation, improving onboarding for new developers in the VideoLAN community.

TECHNICAL SKILLS

Apple Platforms (Swift), Flutter, Open Source, DevOPs, Self-hosting, IoT, 3D Printing

PROJECTS

ARTIWEATHER An Art Weather App

- Developed and launched ArtiWeather for iOS 18, achieving 1.2k downloads and 5k organic impressions on launch day.
- Integrated on-device Stable Diffusion for weather-based image generation, solving real-time rendering challenges.
- Built widgets using WidgetKit for displaying weather visuals on the home screen.
- Currently optimizing SD Model for portrait images, enhancing download UX/UI, and adding support for custom cities.

HOLDER A Secure Card Vault

- Built an iOS app using Swift for securely storing credit and debit card details.
- Used iOS Keychain with iCloud sync for encrypted storage, ensuring data privacy through local-only storage.
- Designed an intuitive interface with SwiftUI, providing a seamless user experience for managing card details.
- Integrated biometric authentication for added security, allowing easy and secure access to stored information.

AWARDS

2021	Winner	Smart India Hackathon 2020
		Built an AI IoT system to predict and adjust lighting and HVAC demand using sensors.
		SIH is a national hackathon by the Government of India, tackling real-world challenges.

PUBLICATIONS

[1] P. Rani, P. P. Singh, A. Balyan, V. Jain, D. Sangwan, and J. Shokeen. A probabilistic routing-based secure approach for opportunistic iot network using blockchain. In *2020 IEEE 17th India Council International Conference (INDICON)*, pages 1–7, 2020.

[2] P. Rani, P. P. Singh, A. Balyan, J. Shokeen, V. Jain, and D. Sangwan. A secure epidemic routing using blockchain in opportunistic internet of things. In A. Khanna, D. Gupta, Z. Pólkowski, S. Bhattacharyya, and O. Castillo, editors, *Data Analytics and Management*, pages 101–110, Singapore, 2021. Springer Singapore.