

# Pushpinder Pal Singh

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## 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 - VIDEO LAN

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.