

Rishi Pal

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PROFILE

Passionate macOS, WinOS and iOS software engineer with over 10+ years of experience in developing and deploying large user base applications. I have a strong background in designing, unit testing, and UI testing, consistently applying my robust development and leadership skills to enhance product quality.

I possess extensive experience in networking security, IPSec, VPN technologies, and Zero Trust Network Access (ZTNA), ensuring secure and reliable solutions for modern applications. I firmly believe in the value of teamwork and strive to be an effective team player.

EXPERIENCE

- Sr. Software Engineer at [Sophos](#) Apr 2021 to Present
(Role: MacOS, WinOS and iOS app developer)
- Sr. Software Engineer at [Skuad](#)(Consultant for [GoJek](#)) Feb 2020 to Apr 2021
(Role: iOS app developer)
- Sr. Software Engineer at [Click Labs](#) Dec 2018 to Jan 2020
(Role: iOS & iPadOS app developer)
- Software Engineer at [Chromelinfotech](#) Jan 2015 to Oct 2018
(Role: iOS & iPadOS app developer)

TECHNICAL SKILLS

- Experience in C++, Swift, Objective-C, and Go(Basic) .
- Proficient understanding of network and security protocols (e.g., TCP, UDP, DHCP/DNS, TLS).
- Solid understanding of network security fundamentals (e.g., Authentication, Cryptography, PKI).
- Expertise in developing System Extensions, App Extensions and Share Extensions.
- Hands-on experience with VPN technologies, specifically in IPSec/IKEv2, OpenVPN, and OpenSSL.
- Expertise in network security and user data protection.

- Familiar with networking tools such as Wireshark and network monitoring solutions.
- Understanding of firewalls, VPN tunnels, and load balancers.
- Proficient in creating custom Pods and Frameworks, as well as integrating Swift Packages.
- Hands-on experience with payment gateways like Stripe, PayPal, Braintree, and Paytm.
- Knowledge of iTunes Connect, provisioning, code-signing, and enterprise deployment.
- Proficiency in various architectural patterns, including MVC, MVP, MVVM, and Lumos (Gojek internal).
- Understanding of application profiling and instrumentation with Instruments and Debug tools.
- Expertise in handling networking concepts such as Socket.io and MQTT.
- Experience implementing offline synchronization using Core Data, Realm, SQLite, and FMDB.
- Proficient in memory management, task management, GCD (Grand Central Dispatch), and NSOperationQueue.
- Hands-on experience with SwiftUI and SwiftData.
- Familiarity with CallKit, WebRTC, and Jitsi.

PROJECTS

ZTNA [[🔗](#)]

Sophos ZTNA adheres to the principles of zero trust: trust nothing, verify everything. Individual users and devices form their own micro-segmented perimeters, undergoing constant validation and verification. In a zero-trust model, users are no longer automatically granted trust and access simply by being 'on the network.'

The solution allows for precise control over access to applications and data, relying on user identity and device health as key factors.

Responsibilities

- Main contributor to the MacOS app development team.
- Engage in collaborative efforts with fellow team members.
- Responsible for crafting Product Requirement Documents (PRD) and Proof of Concepts (PoC) for new features.
- Serve as a reviewer for Pull Requests (PRs).
- Active contributor for iOS app

Technologies and Framework

Swift, Objective-c, CoreData, System Extension, XPC, WebSocket.

Sophos Connect [[🔗](#)]

The Sophos Connect client is a powerful solution for establishing secure remote access using IPsec and SSL VPN connections. It provides users with seamless connectivity via both protocols, ensuring robust encryption and authentication for safeguarding data. The client is easily accessible for download from the user portal or admin console, with SSL VPN connections using .pro files and IPsec utilizing .scx files for quick configuration. Designed to simplify deployment and streamline setup, it offers flexible connectivity options to meet diverse network requirements, enhancing security and productivity in remote work environments.

Responsibilities

- Main contributor to the MacOS and WinOS app development team.
- Set-up CI/CD
- Engage in collaborative efforts with fellow team members.
- Responsible for crafting Product Requirement Documents (PRD) and Proof of Concepts (PoC) for new features.
- Serve as a reviewer for Pull Requests (PRs).

Technologies and Framework

C++, swift, SSL VPN(openvpn), IPsec(strong swan), Openssl, LZO, LZ4

Gojek [[🔗](#)]

Gojek is an all-in-one app catering to your everyday necessities, including food delivery, transportation, and payment services. Beyond its convenience, Gojek is driven by a profound social mission: to elevate the well-being and livelihoods of the Indonesian people.

Working Teams

- Transport Payment Team: This project focuses on enabling payment functionality for various projects, including GoRide and GoFood.
- FAF (Fare Arrangement Framework) Team: Responsible for developing an SDK that calculates and displays all surcharge details on the Order Summary.
- Apollo Team: Dedicated to enhancing the pickup experience for orders.
- Sputnik Team: Develops the UITest SDK utilised by all products for UI testing.

Responsibilities

- Lead the iOS product development within the Sputnik framework.
- Act as a key contributor to the iOS App development team.

- Foster collaboration among team members to drive project success.
- Spearhead the creation of Product Requirement Documents (PRD) and Proof of Concepts (PoC) for innovative features.
- Serve as a Pull Request (PR) reviewer and actively engage in code refactoring efforts.

Technologies and Framework

Swift, CoreData, WebSocket, Notification Extension, Notification Services Extension, UI Testing.

FUGU [[🔗](#)]

FUGU is a versatile team chat application designed for seamless communication, collaboration, empowerment, and engagement, all within a unified chat platform. With FuguChat, users have the flexibility to engage in one-on-one conversations or group discussions, making it ideal for sharing work-related ideas and collaborating on projects.

In addition to text-based conversations, FuguChat also provides a secure platform for instantly sharing text messages and images with coworkers.

Responsibilities

- End-to-End Product Delivery: Oversee the entire product development process and facilitate white-labeling for clients.
- Pod and Framework Design: Design and develop Pods and Frameworks to support calling and chat functionalities for other products.
- Pod and Framework Maintenance: Keep Pods and Frameworks updated to align with the evolving needs of other products.
- CallKit and WebRTC Integration: Seamlessly integrate audio and video call features through CallKit and WebRTC.
- Jitsi SDK Integration: Implement the Jitsi SDK for conference calling capabilities.
- Location and Face Recognition: Develop features for location services and face recognition to enhance attendance tracking.
- Offline Message Synchronisation: Ensure efficient synchronisation of messages in offline mode.
- Content Sharing: Enable users to share text, links, images, videos, and files from their device, iCloud, and Mail App.

Technologies and Framework

Swift, WebRTC, Jitsi, UIKit, Callkit, CoreData, Payment Integration, Apple Maps, CoreLocation, Socket-io, Networking, Notification Extension, Notification Services Extension, Network extension, Share Extension.

CellPay [🔗]

CellPay is a payment service offered by Cellcom Private Limited, providing digital payment and fund transfer services through web and mobile channels. Users can conveniently make payments directly from their bank accounts using this app.

With CellPay, users can link multiple bank accounts to their CellPay account, allowing them to easily transfer money to family and friends. The app also offers additional features such as mobile top-up and bill payment services, covering bills for water, electricity, internet, TV, and more.

Responsibilities

- End-to-End Product Delivery: Lead and oversee the complete product development cycle.
- Collaboration: Work collaboratively with other team members to ensure project success.
- Data Security: Implement encryption and decryption protocols to safeguard user data.

Technologies

Swift, UIKit, CoreData, Payment Integration, Notification Extension, Notification Services Extension, Network extension, Share Extension.

EDUCATION

- MCA from U.P.T.U | 77% 2012 - 2015
- BCA from D.B.R.A.U | 73% 2009 - 2012

Digital profiles



RishiIndolia



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