

Siddharth Sen

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Education

Guru Gobind Singh Indraprastha University

B.Tech Computer Science

CGPA: 8.8 / 10 (Top 10%)

2018 - 2022

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Web Development, Cloud

Professional Experience

Fam | [Visit the Project](#)

iOS Software Engineer

Bengaluru, India

July 2022 – Present

- Implemented NPCI's TPAP feature in FamApp for direct bank account payments, increasing user 18+ retention by 50% and enabling seamless digital transactions via banks
- Implemented new features on the app, including User Credit Reversals, complex UI payment flows, server-controlled bottom tab bar with animations, Digio Aadaar KYC, and server-driven dynamic home cards.
- Successfully refactored internal core frameworks to enhance app performance and maintainability.
- Led the development of Multi-VPA flows, empowering users to select and customize their UPI VPAs.
- Spearheaded the FamX feature, resulting in an 80% app overhaul, showcasing strong ownership and proficiency.
- Developed framework generation for multiplatform using Kotlin Multi-platform, improving development efficiency.
- Provided valuable mentorship to new mobile developers, guiding them through the codebase and addressing their queries.
- Implemented all new features and changes required on the app by NPCI, and played a key role in a recent complete app redesign.
- Enhanced payment processes using RazorPay SDK and RazorPay Web-based SDK.
- Expertly resolved issues related to Introspect, SwiftUI, UIKit, Objective C, and Firebase versions, showcasing deep framework knowledge.
- Trusted go-to person for the entire mobile team, relied upon for crucial issue resolution and decision-making.

Fam | [Visit the Project](#)

iOS Software Engineer Intern

Bengaluru, India

October 2021 – June 2022

- Expertly resolved numerous bugs related to SwiftUI and UIKit, diligently finding solutions for various modules of the app eg. deep-link modules.
- Led the development of Card flows, allowing users to customize their virtual cards with front and back doodles while ensuring seamless backend reconfigurability.
- Successfully improved app performance by an impressive 50% since its inception, and actively contributed to making the codebase more modular for enhanced maintainability.
- Implemented innovative features like a QR Theme editor with complex gesture interactions and complex bottom-sheet implementations, elevating user experience.
- Ensured secure communication by implementing SSL pinning, and facilitated PreKYC Views and dynamic stories (e.g., Spotify Wrapped) to enhance user engagement.

Google Summer Of Code 2020 Internship | [Visit the Project](#)

Software Engineer Intern

Remote

March 2020 – August 2020

- The project involved building a native iOS application for the Agora Web application from scratch. It allows for democratic elections to be held by using multiple algorithms such as Oklahoma, RangeVoting.
- Facebook/AppleID/Server Authentication and Sign up

- MVVM Architecture
- Build a Custom Calendar Library
- Implement the elections-algorithms
- Integrate Database with API
- CI/CD Unit and UI tests
- iPad support
- UI/UX with animations
- Deploy and test on TestFlight

Cypherock | [Visit the Project](#)
Software Engineer Intern

Noida, India
January 2020 – March 2020

- Built an iOS native and Android app to transfer data to and from NFC cards
- Created a custom framework for user mnemonic generation to increase security by 90%
- Generated over **5K units in sales**
- Used **functional programming**, and **multithreading** to optimize and reduce CPU usage by 40%.
- Gained experience in problem-solving with **Java**, **Kotlin**, and **iOS** while utilizing various **Google Cloud Platform** APIs, including **App Engine** and **Datastore**.

Projects

Healthy.ly (Android, Kotlin, Python) | [Visit the Project](#)

- Led a team from Harvard for the project, and built an app to detect allergic food.
- Used Java and Python for the back-end and classifier model trained using dataset scraped from site “nutritiondata”.

Technical Skills

- Languages: Swift, C++, Java, Python, Obj-C
- Technologies: iOS, SwiftUI, Redis, Docker, Android, PostgreSQL, Django, AWS, Git, Unix/Linux

Publications

Review of Recent Developments in Human Pose Estimation | [Visit the Paper](#)

4th International Conference On Innovative Computing and Communication, Elsevier SSRN Series

Achievements

- **Winner of Offline Hack Harvard 2019** at Harvard University, **Massachusetts**, with over 270 students [Visit the Project](#)
- **International Organisation of Software Developers**: Mentored over 2K computer science students in mobile/web development, and open-source software development.
- **Recipient of the Linux Foundation Scholarship** to attend Open Source Summit Europe 2019