

Sai Madhukar Somu

Senior iOS Mobile Engineer | Software Engineer
Harrison, New Jersey, 07029 (New York Metropolitan Area)

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Summary

Inquisitive, Energetic computer science professional specialized in building software applications using Swift, Rust, Java, and python. A good foundation in data structures, math, logic, object-oriented programming, and cross-platform coding.

Work Experience

InRhythm

Manhattan, NY

Senior iOS Mobile Engineer - Fidelity Investments

Aug 2022 - Present

- Senior iOS Engineer on Young Money team, responsible for the iOS code the squad developed and released. The squad own the Learn section of the Fidelity Youth App. Providing Users with Video content, articles, and education courses about teen finances.
- Lead iOS Integration and development for a new feature framework to store all the education content globally across all the Fidelity apps. Built everything from scratch using the latest Swift UI, Foundation frameworks and async programming.
- Lead iOS development of the Learn and earn section with presenting course content with rewards for completing the lessons. Providing bonuses after completing each levels. Keeping the teen engaged and making the journey, fun and easy to learn about finances.
- Wrote Unit tests for every new piece of code introduced and worked on improving the code coverage of the older code. Making sure the code coverage is above 90%.
- Releasing the Feature Framework, Integrating into the Fidelity Youth and Flagship Apps regularly to provide new features to the users.
- Feature Framework Successfully got ported to other sections of the App including Crypto, Bitcoin and Ethereum Courses.

Senior iOS Mobile Engineer - Fidelity Investments (Beta experience)

Nov 2021 - Aug 2022

- Senior iOS Engineer on Flagship Fidelity App, Responsible for migrating the legacy Obj-C code into the latest Swift UI and Combine Frameworks.
- Creating Foundation Core Frameworks completely using Swift UI, Networking Modules, Business Modules, Tracking, Accessibility, Localization and Unit Tests.
- Following MVVM architecture and dependency resolver pattern across the frameworks for easy development and fast integration.
- Moving legacy frameworks code written in VIPER, CLEAN architectures to MVVM Swift UI frameworks.
- Following apple Doc-C and markdown formats to generating crystal clean documentation for all the features.
- Writing Unit Test cases and Improving the code coverage across all the Fidelity frameworks
- Making sure the beta experiences has all the accessibility and Voice Over features in places to provide the best in industry experience to all the users.

iCreditWorks LLC.

Iselin, NJ

iOS ENGINEER

Feb 2020 - Nov 2021

- Implemented remote notification to keep users informed with real-time updates and insights
- Optimized app performance by cutting memory usage by 50 MB, ensuring smoother and faster operation.
- Deployed a TestFlight demo app for training purposes, providing hands-on app experience and gathering user feedback.
- Adopted Swift MVVM for superior code reusability and maintainability, streamlining development processes.
- Improved app responsiveness with efficient asynchronous file handling using concurrent queues.
- Developed Optical Character Recognition (OCR) functionality to scan user ID Cards.
- Implemented asynchronous downloads and managed concurrency using Dispatch Queues in iOS.
- Seamlessly integrated REST APIs using Swift Alamofire package and Postman / CURL for debugging the responses

Darwinbox Pvt. Ltd.

Hyd, India

iOS DEVELOPER

Jan 2018 - June 2018

- Applied Model-View-ViewModel (MVVM) architecture for enhanced code organization and reusability.
- Created user interfaces from scratch using pure Swift objects, ensuring a seamless user experience.
- Utilized the Delegate Pattern to facilitate effective communication between objects.
- Worked with Camera, Microphone, and AV Foundation modules for multimedia functionality.
- Proficient in using Jira, Slack, and SourceTree for efficient project management and collaboration.
- Experienced in Agile development practices, ensuring iterative progress and continuous improvement.

Skills

Programming: Java, Python, Rust, Swift, C, Node Js, Angular Js, Shell Scripting, Cryptography
Packages: Numpy, Sklearn, Pandas, Matplotlib, Flask, UIKit, Alamofire, REST API's
Tools: Git, Dockers, AWS, Firebase, VM, Xcode, Postman, Raspberry pi, Wireshark, Jira
Databases: MySQL, Mongo DB, PL / SQL, Postgres DB

Education

New Jersey Institute of Technology

Master's in Computer Science

Aug 2018- Dec 2019

NJ, USA

GPA 3.7/4.0

Jawaharlal Nehru Institute of Technology

Bachelor's in Computer Science

Aug 2014- May 2018

NJ, USA

GPA 4.0/4.0

Achievements

2020 **AppStore** : Released **iCreditworks** iOS App to Apple Appstore [Along with another developer].

2017 **JAVA SE 8** : Oracle Certified Java Associate Programmer (OCA).

Projects & Publications

Places iOS Mobile App:

github.com/saimadhukar/VideoPlayer

XCODE SWIFT + FIRE BASE BACK-END SERVER

Aug. 2017

- Users can visit any place on earth with just one click
- Any User can Watch, Download and Upload Videos of any place on earth.

Messenger App iOS:

github.com/saimadhukar/ChatApp

XCODE SWIFT + FIRE BASE BACK-END SERVER

Aug. 2017

- Chatting application with registration and login.
- Users can send messages to each other where all data will be stored in Firebase Server.

Number Tiles N-Puzzle Game:

github.com/saimadhukar

LANGUAGE: PYTHON

May. 2019

- Automated the classic N-Puzzle game using AI (Artificial Intelligence).
- Solved the NP-Hard using A* Algorithm.

Banking Web Application:

github.com/saimadhukar/DBMS

FULL STACK: ANGULAR JS, NODE JS, MYSQL DB

Nov. 2018

- Users can Interact with Login, Registration and Accounts View Screens.
- Each User can have one or more accounts linked under his name.
- Users can Send, Receive and Request Money From Others.

Secure File Transfer Application (Socket Programing) :

github.com/saimadhukar/Encrypted-File-Transfer

LANGUAGES: PYTHON, CRYPTOGRAPHY AES ENCRYPTION PACKAGE

Dec. 2018

- Uses 128 - AES Encryption and Secures the file transfer in Client-Server Architecture.
- Users can Connect to the Server and download .txt, .jpg, .pdf, .mkv or ... any kind of file in a secured fashion.

Page Ranking Algorithm:

github.com/saimadhukar/

LANGUAGES: PYTHON BEAUTIFUL SOUP

Jan. 2019

- Finding the Most Relevant Website using the classic Page Ranking Algorithm