

ALI MOHAMMADIAN

alirsgp@gmail.com - 571-328-9646 - <https://github.com/Alirsgp> - Complete App Store Portfolio: <https://apple.co/3FIGAPv>

WORK EXPERIENCE

Swaparoo: Technical Co-founder (**January 2022 - April 2022**)

- Due to recent crypto/macro market funding environment, our team reached a consensus to forego this startup.
- Developed a decentralized escrow system (smart contract) for swapping Solana tokens and SOL.
- Architected a user friendly web app for users to visualize and mint their tokens, and view tokens others have for sale.

Instagram: Software Engineer (Monetization) - Full Stack iOS (**May 2020 - December 2021**)

- Developed various ad delivery and format strategies for music and other partnered videos on Facebook.
- Utilized a data driven approach to find new, revenue-positive, scalable ad format strategies based off individual user behaviors. Incorporated machine learning from partner teams and multi-group testing methodologies for further iterations.
- Worked on creating social video rooms on Instagram. Specifically designing, implementing, and testing new ways to notify users of video call opportunities with friends who recently opened the app.

Independent app developer: - (**January 2017 - Present**)

- **Cuff:** Schedules video calls for users, uses ML to find preferences, variant of stable matching algorithm for matchmaking.
 - Link to application on app store: <https://apple.co/3MFQFtw>
 - Downloaded over 6M times, over 10K reviews w/average 4.9/5 rating.
- **View entire portfolio:** <https://apple.co/3FIGAPv>

Goldman Sachs: Summer Analyst (**June 2019 - August 2019**)

- Implemented an end to end pipeline in Java/Scala to transmit user data relating to the Apple credit card.

SimonComputing: Software Engineer (**June 2019 - August 2019**)

- Developed and iterated on R&D project involving a computer vision library for touch-less fingerprint scanning/processing.

EDUCATION

- Bachelors of Science in **Computer Science at Virginia Tech**
- Graduation Date: **May of 2020; GPA: 3.72**

PUBLICATIONS

- **“Principle Component Analysis”** - Research committed under mathematics professor Martin Klaus of Virginia Tech to highlight practical examples of reducing noisy dimensional data from arbitrary datasets utilizing PCA. (**May of 2020**).
 - Link to research paper: https://github.com/Alirsgp/Principal_Component_Analysis
- **”Quantifying Degradations of CNNs in Space Environments”** - joint research collaboration with the Hume Center under the supervision of Dr. Alan Michaels. (**April of 2019**).
 - Link to research paper, published in 2019 IEEE (CCAOW): <https://ieeexplore.ieee.org/document/8904903/>
 - Primarily researched degradation behavior relating to the ResNet architecture.

TECHNICAL SKILLS

- **Java** (Expert); **GCP/Firebase** (Expert); **Swift** (Expert); **SwiftUI** (Expert); **Objective-C/C** (Expert); **Rust** (Expert); **Python** with **NumPy/pandas** (Very Proficient); **Typescript/Node.js** (Very Proficient);