

# ALI MOHAMMADIAN

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

## WORK EXPERIENCE

### **Swaparoo:** Technical Co-founder, NFT in-game moment marketplace startup (**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 (the cryptocurrency).
- Architected a user friendly web app for users to visualize and mint their tokens, and view tokens others have for sale.

### **Meta:** Software Engineer (Monetization) - Full Stack (**May 2020 - January 2022**)

- 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.
  - Downloaded over 6M times, over 10K reviews w/average 4.9/5 rating.
- **BitAlert:** Users can create custom, self-adjusting percentage notifications for Bitcoin and Ethereum price movements.
  - Top 200 paid finance apps on global app stores.
- **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](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);