ALI MOHAMMADIAN

alirsgp@gmail.com - 571-328-9646 - https://github.com/Alirsgp - Complete App Store Portfolio: https://apple.co/2HYn01h

WORK EXPERIENCE

<u>Instagram</u>: Software Engineer - Full Stack iOS (May 2020 - Present)

- 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.

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

• Implemented an end to end pipeline in Java/Scala to transmit user spending data relating to the Apple Card.

<u>SimonComputing</u>: Software Engineer (June 2018 - August 2018)

• 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 (CCAAW): https://ieeexplore.ieee.org/document/8904903/
 - Primarily researched degradation behavior relating to the ResNet architecture.

NOTEWORTHY MOBILE APPLICATIONS

Cuff: (September 2019 - May 2020; 2 person app startup with a designer)

- Link to application on app-store: https://apple.co/3h585Rc
- Reached over top 200 (#173) in Social Networking category, rating of 4.8/5.0, 60K downloads / month.
- Schedules video calls for users, uses ML to find preferences, variant of stable matching algorithm for matchmaking.
- Tech Stack: SwiftUI for native iOS UI, Node + Typescript for backend with Firestore, WebRTC w/Twilio for video chats.

Friends - Live Video Chat: (Feb 2021 - April 2021; 1 person project)

- Link to application on app-store: https://apple.co/3jTqjIS
- iOS app that connects users with mutual interests to find friends, enter ad-hoc video calls, and send chat messages.

TECHNICAL SKILLS

• Java (Expert); GCP/Firebase (Expert); Swift (Expert); SwiftUI (Expert); Objective-C/C (Expert); Git/Github (Very Proficient); Python with NumPy/pandas (Very Proficient); Bash (Proficient); Typescript/Node.js (Very Proficient); WebRTC and Twilio (Very Proficient); Scala (Proficient); Hadoop (Proficient); Spark (Proficient);