

James Luo
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EDUCATION

- **University of California Riverside** Riverside ,CA
BS in Computer Science GPA: 3.2 *Sept. 2016 – June. 2020*

LANGUAGES AND TECHNOLOGY

Swift,Python,C#(Unity),C++,JavaScript

RESEARCH

- **UC Riverside** Riverside, CA
Undergraduate Research
 - **Ink-well System Summer 2017 - Fall 2018:** Help design a Python tool that is use to debug a micro fluid system. This tool is being used to produce .svg files that are currently on a research poster.
 - **Augmented Reality Networks Lab Winter 2020 - Summer 2020:** Create scripts for debugging, communicating with cloud services, and benchmarking for a multi-user augmented reality application. This research project uses both 5g cellular networks and peer to peer connection and is backed by AT&T. The application is developed in Unity and the data analysis tool is written in Python

STUDENT LEADERSHIP

- **ACM/ASSOCIATION FOR COMPUTING MACHINERY** Spring 2019 - Spring 2020
Officer and Workshop Lead
 - **Project and Event Manager:** Help organize club events that includes competitive programming like ICPC, technical workshops like MLH Local Hack Day, and K-12 outreach.
 - **iOS workshop lead:** Design and teach a year long technical workshop series on building iOS applications that ranges from application using the basic tools like UIKit and Swift to using libraries like CoreML and ARKit

PROJECTS

- **Senior Design** *Fall 2019*
Operating System Security
 - **Linux Exploit:** Configure an exploit for the Unix kernel on both MacOS 10.15.1 and Ubuntu 14.04 that takes advantage of a Sudo bug that was discovered in CVE-2019-14287. The write up of this project can be found on Medium
- **PennApps 2019** *Fall 2019*
AR Textbook
 - **Educational AR app:** AR Textbook is an iOS AR app that uses Firebase and ARKit and is built using Swift. It is an educational hack that is designed to revolutionize the way textbooks are presented.
- **Citrus Hack** *Spring 2020*
Fake Video
 - **Fake Video:** Fake Video is a web application that uses Google Cloud Natural Language API to process text extracted from YouTube videos to identify if a certain video is an AD, saving the user time. This project uses Google Firebase as a database and Google Cloud for machine learning.
Won Honorable Mention Hack
- **Rose Hack** *Winter 2019*
Mentor
 - **Unity:** Mentor two teams with deploying their projects in VR by working with them to debug issues and proposing solutions. Both of these teams won prizes (Best Hack and Best Game).
 - **iOS and Firebase:** Help teams develop iOS application using Swift along with explaining how to setup a back-end using Google Firebase.