

**James Luo**  
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## EDUCATION

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

## TECHNICAL SKILLS

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Swift(Proficient), Python(Proficient), C#(Unity/Prior experience), JavaScript(Prior experience), PHP(Prior experience)

## EXPERIENCE

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- **UC Riverside** Riverside, CA  
*Undergraduate Researcher* *June 2017 - September 2018*
  - **Ink-well System:** Built a Python debugging tool that is used to generate .svg files for debugging a micro fluid system.
- **AT&T and UC Riverside** Riverside,CA  
*Research Assistant* *January 2020 - October 2020*
  - **Multi-User AR:** Develop a project with AT&T and UCR augmented reality lab in which we built a multi-user application that relies heavily on a cellular network. The application was built using Google Cloud services and Unity. The benchmarking scripts were written in Python. AT&T reviewed and adopted the demo as a potential research projects
- **SingTao** Burlingame,CA  
*Backend Engineer Intern* *October 2020-Current*
  - **Advertisement Platform:** Develop an advertisement platform using PHP, Javascript,and MySQL. This backend system is design to work with Digital Signage system and with the goal of being used by over 100 businesses in the San Francisco Bay Area.

## STUDENT LEADERSHIP

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- **ACM/Association for Computing Machinery** *March 2019 - June 2020*  
*Officer and Workshop Lead*
  - **Project and Event Manager:** Help organize club events that include competitive programming like ICPC, technical workshops like MLH Local Hack Day, and K-12 outreach. These events had attendance ranging from 50 people to over 100 people
  - **iOS workshop lead:** Design and teach a year-long technical workshop series on building iOS applications that range from an application using the basic tools like UIKit and Swift to using libraries like CoreML and ARKit

## PROJECTS

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- **Senior Design Course** *October 2019 - December 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** *September 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** *April 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.The project Won honorable mention out of over one hundred projects submitted