

**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*

## LANGUAGES AND TECHNOLOGY

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

## RESEARCH

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- **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 paper.
  - **Augmented Reality Networks Winter 2020:** Help design and optimize shared augmented reality applications to utilize both peer to peer and cellular networks

## STUDENT LEADERSHIP

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- **ACM/ASSOCIATION FOR COMPUTING MACHINERY** 2019 - 2020  
*Officer and Workshop Lead*
  - **Project and Event Manager:** Help organize club events that includes competitive programming, technical workshops, 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

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- **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.
- **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.
- **SB Hacks** *Winter 2018*  
*Food Inventory*
  - **Food Inventory:** Food Inventory counting iOS app that is used to keep track of the food you have in you have Uses Google Firebase as a back-end and FastSpring API as the store front for a well designed shopping experience. Winner of Best Use of FastSpring API