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

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

RESEARCH

- **UC Riverside** — Riverside, CA
  Undergraduate Research — *Summer 2017 - Fall 2018*
  - **Ink-well System**: 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.

STUDENT LEADERSHIP

- **ACM/ASSOCIATION FOR COMPUTING MACHINERY** — 2019 - 2020
  Officer
  - **Project and Event Manager**: Help organize club events that includes competitive programming, technical workshops, and K-12 outreach.

PROJECTS

- **Senior Design**
  Operating System Security — *Fall 2019*
  - **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

- **PennApps 2019**
  AR Textbook — *Fall 2019*
  - **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.

- **TwitchCon Hackathon**
  Twitch PVP — *Fall 2017*
  - **Twitch chat bot game**: Python game built for Twitch chat in which streamers play a game against another streamer using their channel's chat. Built using IRC library and Twitch chat API.

- **Rose Hack**
  Mentor — *Winter 2019*
  - **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**
  Food Inventory — *Winter 2018*
  - **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