

# James King

Email: jcking1034@gmail.com | Github: <https://github.com/jcking1034> | Phone: 213-595-9088

## Education

University of California, Los Angeles (GPA: 3.648)

2018 - Present

- Bachelor of Science, Computer Science and Engineering
- Expected graduation date: June 2022

Los Angeles Pierce College (GPA: 4.000)

2016 - 2017

Grover Cleveland High School Humanities Magnet (CORE)

2014 - 2018

## Relevant Coursework

Programming Fundamentals for Computer Science, Object Oriented Programming in C++, Introduction to Computer Science II, Logic Design of Digital Systems, Introduction to Computer Organization, Software Construction Laboratory

**Languages:** Python, C, C++, Swift, HTML, CSS, Javascript, IDL  
**Tools:** Git, Subversion, Linux, SQL, XCode, Firebase

## Experience

Electron Losses & Fields Investigation: Science Processing Lead | *Python, SQL, IDL*

Oct 2018 - Present

- Created and maintained a science processing pipeline which transforms recently downlinked data to Common Data Format for a NASA-funded CubeSat mission studying space weather, then pushes this data to a server for scientists to access
- Developed and refined algorithms to perform data processing, scientific calculations, and decompression
- Wrote tools to help improve ground operations by optimizing data downlinking and testing attitude calculations

Logos News LLC: iOS Development Intern | *Swift, Xcode, Firebase*

Jan 2019 - March 2019

- Refined an iOS news application focused on stimulating political discussion
- Improved the user interface, with a focus on the layout and responsiveness of profile pages and notification handling

## Projects

Institute of Electrical and Electronics Engineers, UCLA

Sept 2018 - Present

- Constructed and programmed a maze-solving algorithm for a Micromouse vehicle
- Through the OPS program, refined hardware and software skills, including PCB design and programming microcontrollers

Audacity | *Swift, AVFoundation, XCode, Audacity*

July 2017

- Created an iOS Application which trains reaction time by having users interact with auditory stimuli
- Enveloped users in a three-dimensional sound environment using sound-spatialization technologies
- Presented this application at COSMOS at University of California, Irvine

## Community Involvement

Upsilon Pi Epsilon, UCLA Chapter: Entrepreneurship Chair

Apr 2019 - Present

- Organized events with recruiters and engineers at various companies

Eta Kappa Nu, Iota Gamma Chapter

Apr 2019 - Present

- Provided tutoring for the student body, focusing on teaching the fundamentals of computer science

IDEAHacks: Volunteer

May 2019 - Present

- Provided assistance for the largest hardware-focused college hackathon in the state of California
- Engaged in communications with companies to request support for the hackathon

2019 Aid Summer: English Teacher

July 2019

- Attended workshops focused on effective communication and teamwork
- Engaged students in English-teaching exercises and activities at Xinyi Middle School in Taiwan