**Zhouheng Sun**
https://github.com/onionhoney

zhouhengsun@gmail.com
424-270-4223

## Education

- **The University of California, Los Angeles** — Los Angeles, CA
  *B.S. Computer Science, Class of 2019* — *Sept 2015 - present*
  - GPA: 3.89 (Dean's Honors List)
  - Coursework: Compiler, AI, OS, Network, Algorithm, Automata Theory, Programming Languages, Computer Architecture, Linux Software, Graphics;

## Experience

- **Software Developer Intern at Symantec STAR Team** — Los Angeles | Summer 2017
  - Ported legacy virus scanner engine to the new safe execution environment in C++.
  - Designed an automatic code converter using tokenizer to help the porting effort.
  - Wrote malware sample gathering and testing tools in Python.

## Research & Projects

- **Programming Language Research under Prof. Todd Millstein** | C++/OCaml — Fall 2017 - Present
  - Work on Data-Driven Precondition Inference Engine for C++ and OCaml.
  - Design test programs to validate and improve loop invariant inference algorithms.

- **Hymnia - Face Recognition Music App** | Frontend - ReactNative — May 2017
  - Created music recommendation algorithm based on emotions detected from selfies.
  - Built a music player with React that stream songs from youtube.

- **GarbagemonGo - Android Game** | Backend - Python (Django) — Sept 2016
  - Designed gamification verification mechanism combining GPS location with computer vision.
  - Integrated game data with Restful API and a reward system built upon CapitalOne API.
  - Winner of CapitalOne's Best API Prize

- **FitRPG** | Frontend - ReactJS, HTML, CSS — May 2016
  - Wrote an online RPG that integrated realtime Fitbit stats to promote progress through fitness.
  - Designed and wrote the web client in ReactJS fully equipped with levels, shops and user stats.

- **Testing Tools for CS Class Projects** | C++, Bash — Jan 2016 - Feb 2016
  - Built test tools for class projects that take in custom test cases and print out detailed error message.
  - Published on Github and used by dozens of fellow students.

## Contests and Awards

- **Competitive Programming**
  - Placed 4 / 94 at 2016 ACM-ICPC Southern California Regionals
  - Bloomberg Codecon 2016 Global Finalist (Placed third at Regionals)

## Activities

- **ICPC Committee Chair at UCLA ACM** — Sept 2016 - Present
  - Organize and tutor weekly trainings; write problems and backend for school-wide coding challenge.

## Skill Set

- Good At: C/C++, Javascript, Python
- Familiar With: Java, Scheme, OCaml, PHP, Prolog