

Huan-Yu (Henry) Chang

Los Angeles, CA 90024 | 205-542-5166 | hchang23@g.ucla.edu | [linkedin.com/in/hchang23](https://www.linkedin.com/in/hchang23)

Education

University of California, Los Angeles

Jun. 2023(Expected)

B.S. Computer Science

GPA: 3.789

Professional Experience

Alcatara Inc, Los Angeles, *Full Stack Developer*

Jun. 2020 - Current

- **Implemented** RBAC user management system to secure server endpoints, establish persistent user sessions, and encrypt sensitive user-information.
- **Optimized** backend to better support live image streaming and download. **Reduced** fetching time of live images by **60%**. **Cut down** download and compression time for data over 120MB by approximate **85%** ~(30min to 4 min) .
- **Modularized** base to clarify and speed up development, debugging, and deployment procedures. **Reduced** code base by over **20%**. **Automated** deployment, **greatly sped up** and **simplified** the process.
- Currently, **optimizing** image processing. Expecting to reduce space usage by approximately **35%**.

Alcatara Inc, Los Angeles, *Software Engineer Intern*

Feb. 2020 - Jun.2020

- **Updated** user-interface to include both **light and dark** themes. **Re-organized** components to increase readability and reduce white space usage by **30%**.
- **Implemented** dynamic scaling of graphs in proportion to screen resolution. **Added** button animations to add user interactivity.

Leadership

UCLA ACM, *Cyber Officer*

Oct. 2019 - Current

- **Lead** in-depth workshops on topics such as cryptography, forensic, web-hacking, and reverse engineering (40+ attendees). **Create** (20+) CTF challenges on RSA encryption, buffer overflow, and packet capture.
- **Host** and **facilitate** puzzle hunt for other UCLA students, resulting in over (100+ attendees).
- **Manage** club website (<https://acmcyber.com/events>) through AWS and Docker container. **Automate** deployments of CTF challenges into docker containers to prevent possible security breach.

E-ssential(<https://github.com/hchang19/CS-97>)

May. 2020 - Jun.2020

- **Led** a 4-member team to **create** a distribution site for essential goods.
- **Conducted** semi-weekly meetings and **hosted** work-sessions to help members familiarize with the technology.
- **Utilize** Socket.IO to support **real time** messaging functionality on the client side.
- **Developed** item management system, allowing users to add/delete/update items.

UCLA ACM, *Dev Team*

Jun. 2020 - Current

- **Implemented** a dynamic and interactive map of UCLA campus using SVG and React.
- **Automate** inserting (50+) puzzle information into mongoose database upon server deployment.
- **Collaborated** with other student organizations such as UCLA ACM ICPC and ACM HACK to create fall events.

“Time is an illusion. Lunchtime doubly so” - Adam Douglas