Huan-Yu (Henry) Chang

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Education

University of California, Los Angeles   **Jun. 2023(Expected)**

  B.S. Computer Science   GPA: 3.789

Professional Experience

Alcatera 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%**.

Alcatera 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 readibility 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.

Language & Tools

- **Languages:** C++ , JavaScript, NodeJS, Python (in progress), HTML/CSS, Mongo
- **Tools:** docker, docker compose, wireshark, AWS(in progress), Git, Kafka, React, VueJS, Kafka, Linux system,