

# Yu-Hsi (Ellie) Cheng

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## EDUCATION

### University of California, Los Angeles (UCLA)

Expected June 2022

*Bachelor of Science in Computer Science and Engineering*

- **Relevant Coursework:** Data Structures, Computer Organization, Algorithms & Complexity
- **Honors:** Upsilon Pi Epsilon, Dean's Honors (Fall 2018, Winter 2019, Spring 2019)
- **GPA:** 4.0

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## TECHNICAL SKILLS

- Programming languages: C/C++, Python, Java, HTML, CSS, Javascript
- Frameworks/Tools: React.js, Express, Flask Linux, Docker, Git

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## EXPERIENCES

### Networked & Embedded Systems Laboratory, UCLA

April 2019 – Present

*Undergraduate Research Assistant*

- Working with **OP-TEE** Arm TrustZone technology on a **Raspberry Pi 3** and **Hikey**
- Experimenting with controlling peripherals from the OP-TEE OS core using C

### ACM Cyber, UCLA

October 2018 – Present

*Capture the Flag Director*

- Created Capture the Flag questions in topics like cryptography and reverse engineering and websites for workshops using **Flask, Python, Docker, Git, Linux**
- Organized events such as Capture the Flag Nights and California CTF 2019 by handling food logistics for up to 50 people and communicating with various school departments

### Aetla

June 2019 - Present

*Software Developer*

- Designing and developing a course-planning web application using **React.js, Express, HTML, CSS** for college students to efficiently and conveniently plan their curriculum
- Building a planner page with drag and drop course cards and course search for organizing courses
- Developing **backend API** to query **MongoDB Atlas** database to feed planner with courses' and plans' data

### ResearchUCLA, UCLA

January 2019 – Present

*Software Developer*

- Developed a website in **React.js, HTML, CSS** in a team that provides students with information about research opportunities, news, and faculty centered around AI and machine learning at UCLA
- Implemented the navigation bar, adding **dynamic mobile responsiveness** by detecting screen widths and scaling components appropriately
- Integrated **Firebase** for backend database to sync information about research labs

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## ENGINEERING PROJECTS

### #Trashtag, UCLA

22-24 March 2019

*LA Hacks*

- Implemented the UI/UX of a web app that acts a platform for bringing people together to clean up trash around the area by creating the post components and the general layout of the feed page using **React.js, HTML, CSS**
- Utilized **Firebase** to store images from user uploads and as the database for the post contents to imitate **CRUD** functionality in the prototype

### CodeSprint, UCLA

5 May 2019

*Competitor*

- Designed algorithms finding the optimal path for a frog to eat the most bugs on a grid-formatted pond and finding the optimal decision in a game of collecting coins given limitations on moves in coding competition hosted by **UCLA ACM ICPC**
- Ranked top 3 in team round, top 10 in individual round

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## ADDITIONAL SKILLS

**Languages:** Fluent in Mandarin Chinese