

Yu-Hsi (Ellie) Cheng

ellieyh@gmail.com • (916) 597-6366 • www.linkedin.com/in/yu-hsi-ellie-cheng • github.com/ellieyhcheng/

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, Artificial Intelligence (IP)
- **Honors:** Upsilon Pi Epsilon, Dean's Honors (Fall 2018, Winter 2019, Spring 2019)
- **GPA:** 4.0

TECHNICAL SKILLS

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

EXPERIENCES

Networked & Embedded Systems Laboratory, UCLA

April 2019 – Present

Undergraduate Research Assistant

- Working on a project evaluating different interpretable machine learning techniques
- Worked with **OP-TEE** OS Arm TrustZone technology on a **Hikey**, controlling peripherals 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

- Designed and developed a course-planning web application using **React** and **Express** for UCLA students to efficiently and conveniently plan their curriculum
- Built all the **frontend** features, including a planner page with drag and drop course cards and course search for organizing courses
- Designed and implemented **backend API** that queries **MongoDB Atlas** database to feed planner with users', courses' and plans' data, utilized **Firebase Authentication**, and connected backend with frontend
- Implementing **anonymous sessions** for more versatile user experience, allowing them to make course plans without making accounts

ResearchUCLA, UCLA

January 2019 – June 2019

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

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 Database and Storage** to store images from user uploads and the post contents for CRUD

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