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, Algorithms & Complexity, Artificial Intelligence, Operating Systems (IP), Logic Design of Digital Systems (IP)
- Honors: Upsilon Pi Epsilon, Dean's Honors (Fall 2018, Winter 2019, Spring 2019)
- **GPA:** 3.981

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 for explainability
- 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

MeetMe December 2019 – January 2020

Software Developer

- Designed UI/UX of an event scheduler heavily inspired by When2Meet using React, Express, and Firebase
- · Emphasized user friendly UI such as being mobile friendly and enabling touch on web and mobile
- Utilized the package Moment.js to efficiently work with date, time, and time zones

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

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