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 Principles, Programming Languages, Probabilistic Programming & Relational Learning
- **Honors:** Upsilon Pi Epsilon, Dean's Honors (Fall 2018, Winter 2019, Spring 2019, Fall 2019)
- **GPA:** 3.985

TECHNICAL SKILLS

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

EXPERIENCES

Statistical and Relational Artificial Intelligence Lab, UCLA   January 2020 – Present
Undergraduate Research Assistant
- Implementing optimizations for the probabilistic programming language **Dice** in **OCaml**

Networked & Embedded Systems Lab, UCLA   October 2019 – Present
Undergraduate Research Assistant
- Worked on a project evaluating different interpretable machine learning techniques for explainability in **Python** with **Keras**

ACM Cyber, UCLA   October 2018 – Present
Co-President
- Leads officer team on creating workshops for novices interested in **cybersecurity** at UCLA
- 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 – October 2019
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

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

CodeSprint, UCLA   5 May 2019
Competitor
- Ranked top 3 in team round, top 10 in individual round