

Kalea Chu

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EDUCATION

University of California, Berkeley | Berkeley, CA

Expected: May '23

Intended Computer Science

GPA: 3.890

Coursework: Data Structures, Structure and Interpretation of Computer Programs, Designing Information Devices and Systems I & II, Computer Simulations, Mechanics and Relativity

EXPERIENCE

Political Computer Science at Berkeley

Sep '20 - Present

Developer

- Examine the correlation between US citizens' political alignment, level of data privacy concern, and geographical location by cleaning and visualizing data

eCode

Sep '20 - Present

App Developer

- Develop a decentralized application on Ethereum using Solidity in preparation for a larger project to further support eco-conscious efforts
- Using Expo's Location API and React Native, kick-start a phone application that tracks movement with the intention of informing users about their carbon footprint

Space Sciences Lab - Lawrence Berkeley National

Jun '20 - Aug '20

Undergraduate Research Assistant

- Analyze stratospheric sudden warming in the Arctic region via temperature and wind patterns
- Using WACCM models and SABER satellite data, organized data from netCDF4 files using numpy and pandas to generate contour plots with matplotlib

PROJECTS

Math Encounters

Fall '20

Pseudo-randomly generates a 2D tile-based world that players explore using keyboard input. Tests basic algebra throughout exploration.

VOLUNTEER

Computer Science Mentors

Aug '20 - Present

- Mentor a group of six students taking CS 61A, a course aiming to teach intended computer science majors how to structure and interpret computer programs
- Build mentees towards the necessary intuition for solving coding problems
- Provide additional resources to mentees as a member of the video walkthrough task force

Project Smile

Feb '20 - Present

- Guide mentee at Willard Middle School in Berkeley, CA by offering emotional support, academic guidance, and, most recently, virtual community events as a social committee officer

LANGUAGES

Python (experienced), Java (experienced), Scheme (basic), SQL (basic), HTML (basic)

ADDITIONAL TRAITS

Active communicator, committed to learning, highly organized, honest