

Elaine Chao

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EDUCATION:

University High School

August 2017 – June 2021

Computer Science B.S. with Linguistics minor, UCSD

Expected graduation Dec 2024

Relevant coursework: Discrete Mathematics, Algorithms, Data Structures, Software Development, Operating Systems

ACTIVITIES:

TritonHacks

September 2021 – Present

Role: Starter Kit Lead, Tech Team member

- designed, programmed and wrote a starter kit in Alice for the hackers
- led the team for designing that starter kit, coordinated with the other leads
- maintained the React website

Triton Solar Car

September 2021 – Present

Role: Telemetry Lead, Electrical Team

- designed and implemented the CAN bus system for the solar car using Arduinos and CANopen protocol
- set up and programmed ZigBee radio modules using Java to communicate between solar car and observer

Kode4Kids

2020 – 2021

Role: Head of Scratch Intermediate

- designed the website and wrote curriculum for the classes
- taught elementary and middle school-aged kids Scratch (avg. 20 kids per season)
- wrote emails and communicated with parents

PROJECTS:

Social Compass Android App

- used Agile development methods to coordinate with a team of five and deliver the product by the deadline
- implemented HTTP protocol and MVP architecture to communicate with a remote server and display user location data in real time
- wrote Java unit tests and end-to-end testing with Robolectric and Espresso

Peer Tutoring Website

- developed a full stack web application using Node.js and MongoDB to allow students to search and filter through tutor profiles
- stored tutor information in a NoSQL database
- implemented authentication with Google sign-in

SKILLS:

- Proficient in Java, C++, Javascript (Node.js and Express frameworks), React, Android Studio development, MATLAB, Arduino, Git
- Fluent in Chinese