Esther Zhao

å 626, 872, 8281 ■ ewzhao@ucsd.edu estherzhao.com zhaoesther **zhaoesther**

EDUCATION

Jun 2020

Bachelor of Science, Computer Science, University of California - San Diego

Provost's Honors, GPA - 3.86

EXPERIENCE

Jun 2019 -

Software Engineering Intern, Visa, Foster City, CA

Sept 2019

- Designed and implemented a React application to access and change metadata properties of Visa Checkout
- Built NodeJS and Express backend server to integrate with existing property lookup API
- Redesigned existing UI portal to improve ease of use, resulting in 100% correct user flow for each task given

Jan 2018 present CSE Tutor, Computer Science & Engineering Department, UC San Diego, La Jolla, CA

- Analyze and debug students' code, and clarify programming concepts in Java and C++ for Intro and Advanced **Data Structures courses**
- Monitor online discussion forum, Piazza, to answer student questions
- Collaborate with professor and team of 10-25 to grade projects and lead review sessions
- Host one-on-one private tutoring sessions to explain course material in more depth

Sept 2017 –

Graphic Designer, Muir College Student Affairs, UC San Diego, La Jolla, CA

Dec 2018

- Worked with Adobe Illustrator and Photoshop to create logos, merchandise, and marketing materials
- Managed up to 3 projects per week dependent upon clients' requests
- Projects produced contributed to raising over \$3,000 from 15% of sales for the John Muir College Scholarship by producing designs for college merchandise

PROJECTS

Apr 2019 -

Native Web Components | JavaScript

Jun 2019

- Lead sub-team of 5 within larger team of 12 to build custom vanilla JavaScript web components
- Build and manage a working pipeline to incorporate continuous integration, unit and browser testing, and codebase styling
- Communicate and delegate tasks amongst team members over Slack, Clubhouse, and Notion
- Libraries/Technologies used: lit-html, LitElement, TravisCI, Test Café

Dec 2018 -

Theta Tau LED Speakers | Python

Jan 2019

- Developed Python script to interface a WS2801 LED strip and Raspberry Pi upon startup through SPI connection
- Took GPIO readings to reindex each LED light in a matrix to match the orientation of the lights on the speaker
- Created a drawing interface to simplify drawing letters and sprite images on the screen
- Displayed dynamic custom messages in infinite scroll pattern using a sliding-window approach

Sept 2018 -

Mealtime | JavaScript

Nov 2018

- A mobile web application to find and filter recipes based on leftover ingredients
- Designed and implemented frontend user interface in HTML5, CSS, JavaScript
- Frameworks/Libraries used: jQuery, HandleBars, Bootstrap, URLSearchParams API, LocalStorage

SKILLS

Languages **Frameworks** Java, C++, C, ARM Assembly, Python

JavaScript, HTML, CSS, React, jQuery, LitElement

Other Node.js, MongoDB, Express, Unix, Git, Unit testing, Vim, OpenGL