Zhonghe Zheng

Nickname: Catherine | Pronouns: She/Her/Hers | Los Gatos, California
(408) 992-1782 | zzheng3@caltech.edu | LinkedIn: zhonghezheng

EDUCATION

California Institute of Technology - *B.S. Computer Science*   SEP 2022 - JUN 2025

University of California, Irvine - *B.S. Computer Science and Engineering*   SEP 2021- JUN 2022

GPA: 3.93

EXPERIENCE

ICS Student Council - *Corporate Committee*   OCT 2021 - JUN 2022
- ❖ Build and maintain relationships with companies and alumni
- ❖ Helped organize workshops offered to thousands of ICS students on writing resumes, setting up GitHub, and interview processes

FRC Robotics Team 846 - *Senior Design Lead*   AUG 2017 - JUN 2021
- ❖ Led a team of 8 to design, build, and assemble the Drivetrain of the Robot
- ❖ Oversaw design process of various robot subsystems (Drivetrain, Climber, Storage) during Build Season
- ❖ Taught design and machining workshops to 40-50 students

PROJECTS

Zotty Potty   MAY 2022
- ❖ Won Best Overall Runner Up and Best Female Empowerment Hack among 27 at teams VenusHacks 2022
- ❖ Created an app that showcases a map of all UCI bathrooms. Allows users to search for individual needs such as all-gender inclusivity and sanitary products, as well as submit reviews and ratings for the bathrooms
- ❖ Built using HTML, CSS, and Javascript for frontend and Django for backend. Bathroom data is stored in a SQLite database, and implemented Leaflet.js and Geolocation API for mapping
- ❖ Researched and incorporated the Leaflet.js and Geolocation API into the project. Worked on bridging frontend and backend

IEEE Open Project Source - *Personal*   SEP 2021 - JUN 2022
- ❖ Hands-on learning program for embedded systems
- ❖ Projects include building a distance sensor with IR transmitters and receivers, and designing a Redlight Greenlight game implemented with Serial Peripheral Interface
- ❖ Built a remote controlled car controlled by tilting an IMU

Journaling Application - *Personal*   SEP 2021 - DEC 2021
- ❖ Developed a file exploration system with Python which allow users to write, save, modify, and delete journal entries locally or publish them onto a server with network sockets and protocol
- ❖ Used JSON to send and retrieve data from APIs to enhance journaling experience
- ❖ Incorporated PyNaCl and Tkinter libraries to allow encryption and create a user-friendly GUI

SKILLS

Technical Skills: Python, VHDL, Java, C++, Git, HTML, JavaScript, React, SQL, Bootstrap

Frameworks: Eclipse, **Arduino**, IDLE, IntelliJ, VS Code, Arduino, VIM