

Tristin Xie

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EDUCATION

University of California San Diego

B.S. in Computer Science · Minor in Business · Provost Scholar

Expected Graduation: June 2023

GPA: 3.837/4.0

Relevant Coursework

Data Structures and Object-Oriented Design · Computer Organization and Systems Programming · Software Tools and Techniques · Mathematics for Algorithms and Systems · Theory of Computation · Linear Algebra · Statistics for CS

EXPERIENCE

UC San Diego Design Lab

Research Assistant

San Diego, CA

Sep. 2020 - Nov. 2020

- Cooperated with Ford Motor Company to explore autonomous car implications and functionalities for the driver
- Conducted research on the technical team and presented findings to 45+ fellow research assistants and professors

California State Polytechnic University, Pomona

Tech Design Intern

Pomona, CA

June 2018 - May 2019

- Collaborated in large teams to brainstorm a variety of engineering problems and possible solutions
- Pitched a machine learning goal tracking application design prototype to 2 professors and 14 other interns

PROJECTS

ACM Teammate Finder: Web App To Find Teammates Easily | [Github](#)

Oct. 2020 - Present

Technologies: JavaScript · Firestore · React · Express.js · HTML/CSS · RMWC

- Implementing dynamic Material Design webpages with React, HTML/CSS, and React Material Web Components
- Developing CRUD functions for back-end using Express to fetch and post updates to Firestore database.
- Collaborating with a full team including a project manager, full-stack developers, and a designer.

EnviroSense: Internet of Things Pollution Sensor | [Devpost](#) | [Github](#)

Oct. 2019

Technologies: Java (Android) · Python · Firebase · Google IoT Core · ESP8266

- SDHacks WINNER (3rd):** Best IoT that Incorporates Multiple Nodes (team of 4)
- Built a sensor node prototype which measures data from the ambient environment
- Uploaded data to Firebase database which can be retrieved and displayed by the Android app

PictureTranslate: Real-time Computer Vision Object Translator | [Github](#)

Aug. 2019

Technologies: Python · OpenCV · ImageNet · Google Translate

- Pair programmed and trained Haar Cascades on 4 different smartphones, 4 denominations of money, and more
- Takes video feed and pauses with translation of object to the 100+ languages using the Google Translate API

SKILLS

- Languages:** Java · C/C++ · Python · JavaScript · HTML/CSS · ARM Assembly · Bash · \LaTeX
- Frameworks and Tools:** Git · React · Node.js · Express.js · GDB · Valgrind · Firebase/Firestore · OpenCV
- Software:** Vim · Visual Studio Code · Android Studio · Adobe Illustrator · Microsoft Office
- Fluent in Mandarin Chinese

LEADERSHIP

ACM UC San Diego Dimensions Conference

Finance Team Lead · Tech Team

San Diego, CA

Aug. 2020 - Present

- Managing a \$100k+ budget of 40+ organizers for an upcoming large collegiate technology conference
- Directing fundraisers for the event while also implementing parts of the conference's website with React and Node.js