

# Shane Stevenson

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## WORK EXPERIENCE

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### Research Experience for Undergraduates (REU)

May 2023 - July 2023

Undergraduate Researcher

Denton, TX

- Handled and processed large amounts of point cloud data retrieved from aerial UAV drones with LiDAR attachments
- Developed voxel grid data augmentation in order to enhance the quality of our dataset
- Developed a custom AI to recognize and count the number of trees in a given point cloud with an accuracy of 85%
- Utilized the TACC supercomputer to train a task adjacent model for future transfer learning use

### The Roxy Encinitas

Oct 2021 - Sept 2022

Head Busser/Barback

Encinitas, CA

- Worked in a fast paced environment, shuffling many different tasks at once
- Became the most senior busser/barback
- Called upon to train new employees
- Helped guests with any questions or concerns

## EDUCATION

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### San Diego State University

August 2022 - Present

Second year Computer Science and Computational Mathematics double major

San Diego, CA

GPA: 3.94

Relevant coursework:

- Data Structures and Algorithms
- Computer Organization
- Intro to Software Systems
- Linear Algebra
- Mathematical Data Science

## PROJECTS

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### Server Administrator and research assistant for the SDSU Machine Vision and Perception Lab:

- Debugged and fixed the Machine Vision and Perception Lab's Homeye website
- Utilized web scraping tools to generate a database of community photos for the Homeye project
- Displayed the photos on the Homeye website for the community rating section

### Avionics member of the SDSU Rocket Project:

- Set up a Raspberry pi 3 B+ for data acquisition
- Interfaced with a ADS1115 and a pressure transducer in order to record data during a static launch

### Miscellaneous projects:

- Did research under an SDSU alumni on solving John H. Conway's Sylver Coinage game
- Developed a terminal based program that utilizes Open AI's "Whisper" to transcribe computer audio into closed captions for the user.

## SKILLS

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- Intermediate level C++ programmer
- Intermediate level Python programmer
- Data visualization and processing with Python
- Experience with Arduino, stm32, and raspberry pis
- Highly proficient with linux
- Highly experienced with PyTorch

## Interests

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- Machine learning
- Data science
- Competitive programming