

Elwyn Cruz

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Objective

- Seeking an internship opportunity that will allow me to learn software engineering practices and utilize my problem solving skills in a fast-paced environment
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Education

University of California, Los Angeles

September 2017 — Present

- Bachelor of Science, Computer Science Major
 - GPA: 3.622
 - **Relevant Coursework:** Object Oriented Programming, Data Structures, Computer Organization, Operating System Principles, Algorithms & Complexity, Programming Languages
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Research Experience

Student Researcher, UCLA Smart Grid Energy Research Center

June 2020 — Present

- Developing the ANT, an autonomous robot for last mile delivery of larger packages
 - Deployed an iOS app that allows for remote control of a robot and real time video streaming from the robot's camera
 - Optimized path planning algorithm using vectorization
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Projects

Kart (JavaScript, HTML, CSS)

September 2020 — Present

- Creating a wishlist and checkout browser add-on for keeping track of products and choosing items to reach a minimum price quota for free shipping and discounts
- Built a web scraper using JavaScript to find product info from various websites

Simple Router (C++)

February 2020 — March 2020

- Collaborated on an implementation of a simple router to handle incoming IPv4 and ARP packets
- Built an ARP cache to hold IP-to-MAC mappings with a timeout period of about five seconds

Scene Recognition (Python)

October 2019

- Trained a machine learning model using SIFT, SURF, and ORB feature detection to classify pictures of rooms
 - Achieved around 70% accuracy with twelve different categories
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Activities

mentorSEAS

September 2019 — Present

- Mentoring freshman engineering students by providing resources and activities including tutoring, social events, and a support group
 - Provide a welcoming space for new students to meet
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Skills

Coding Languages: C++, Python, C, C#, HTML, CSS, Bash

Computer: Git, Linux, Scripting, Object Oriented Programming