

DANIEL PERALTA

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EDUCATION

Los Angeles Harbor College <i>Associates in Liberal Arts and Sciences</i>	<i>Aug. 2017 - Jun. 2021</i>
University of California, Santa Cruz <i>Bachelor of Science in Computer Science</i>	<i>Sep. 2021 - Mar. 2024</i>
California State University Long Beach <i>Pursuing Masters in Computer Science</i>	<i>Expected Graduation, May 2026</i>

WORK EXPERIENCE

Food Service Worker <i>University of California, Santa Cruz</i>	<i>Sep. 2022 - Jun. 2023</i>
○ Assisted cooks, cleaned tables, and washed dishes. ○ Served meals to thousands of students.	

Event Staff / Tech Crew <i>University of California, Santa Cruz</i>	<i>Sep. 2023 - Mar. 2024</i>
○ Provided technical support for events at UCSC. ○ Assembled and operated sound, video, and lighting equipment. ○ Awarded for service and leadership to the College Nine community.	

RESEARCH

Flexible Scenario Generation for CSP in Godot	https://arxiv.org/abs/2412.18408
○ Collaborating with Dr. Xin Qin, researching methods to simplify testing the safety of cyber-physical systems. ○ Developing a pipeline that takes satellite road images and generates road meshes inside a simulator. ○ Presented at the 16th ACM/IEEE International Conference on Cyber-Physical Systems in Irvine, USA.	

PROJECTS

Multi-Class Image Segmentation on Cars <i>Python, TensorFlow</i>	
○ Trained a model to accurately perform semantic segmentation of vehicle parts with Tensorflow. ○ Utilized U-Net architecture, dataset augmentations, class weight balancing, and one-hot encoding.	
Behavior Tree Agent <i>Unity, C#, Git</i>	
○ Implemented a behavior tree for an agent that collects treasure and avoids enemies. ○ Developed a simple procedural-level generation system for the agent to traverse. ○ Presented virtually to other students interested in artificial intelligence in video games.	
Parking App for UCSC <i>HTML, CSS, JavaScript, Node.js, Leaflet.js Library, Docker, Git</i>	
○ Developed a web application for students to view and report the statuses of parking lots around UCSC. ○ Collaborated with a team while utilizing SCRUM to manage development. ○ Collected and recorded data on parking lots around campus. ○ Presented the project in person to other computer science students.	

TECHNICAL SKILLS

Programming Languages: Python, HTML, CSS, JavaScript, GDScript, C#

Developer Tools: VSCode, Git, NodeJS, Express, React, Flask, Tensorflow, Godot, Unity, Linux

Media Tools: Adobe Premiere/DaVinci, Photoshop, Open Broadcaster Software

Office Tools: Microsoft Word, Excel, PowerPoint

Setting up and operating audio, video, and lighting equipment