

Andrew Perez

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EDUCATION

California State Polytechnic University, Pomona

Winter 2024

Major in Computer Science | Bachelor of Science

- Minor in Data Science
- Summa cum laude
- Organizations: SheCodes, Cal Poly SWIFT

PROJECTS MANAGEMENT AND LEADERSHIP

Mobility Scooter Project

Spring 2024–Winter 2024

Mobility Scooter Safety Project Developer

- Enhancing safety for mobility scooter users by developing AI-driven safety metrics using computer vision and deep learning models to provide critical insights for doctors and rehabilitation specialists.
- Processing large datasets of patient-recorded scooter-ride video footage through a team-built app.
- Collaborating within a large disciplinary team on a 3-year U.S. National Science Foundation-sponsored project.

STARS Research Program - Automated Blender Decal Application

Summer 2023

Photogrammetry Researcher

- Supported the research of automatic construction of realistic 3D models from images.
- Optimized 3D model creation through Python script by automating the process of applying a plane onto an object as a Blender add-on.
- Presented at the Annual CPP Creative Activities & Research Symposium.

SheCodes Semester Project - "Cinema"

Fall 2022

Full-stack Developer & Graphic Designer

- Co-developed "Cinema", a website recommending movies based on users' favorite genres using HTML/CSS.
- Designed the website's logo, user interface, and overall layout.
- Led project timelines, coordinated team efforts, and presented to CPP Computer Science faculty.
- Team presentation to a board of CPP Computer Science professors.

HONORS AND AWARDS

University Honors

2020–2024

California State Polytechnic University, Pomona | College of Science

- Dr. Soraya Coley, President's Honor List and Dr. Alison Baski Dean List, recognized for academic excellence.

Eagle Scout

2013-2020

Boy Scouts of America, Troop 140 | Eagle Scout Class of 2020

- Project Leader for "Disaster Preparedness & School Restoration" as Eagle Project.
- Proposed detailed plans to Long Beach City Council, fundraised from local businesses.
- Led 20+ volunteers over 4 months to educate and equip a local elementary school for disasters.

TECHNICAL SKILLS AND INTERESTS

Software/Technical skills: Java, Python, SQL, Tableau, Excel, HTML, Blender, RealityCapture, Procreate, Eclipse IDE

Relevant Courses: Big Data Analytics and Cloud Computing, Software Engineering, Machine Learning

Other Interests and Special Skills: Electronics soldering, Digital Illustration, Japanese language, Animal care