## **Andrew Perez**

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### **EDUCATION**

### California State Polytechnic University, Pomona

Graduated Winter 2024

Bachelor of Science | Computer Science

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

### **EXPERIENCE AND PROJECTS**

# Data Analyst - Medical Clinic Appointment No-show Analysis & Dashboard Independent Project

June 2025

- Analyzed 71,000+ real-world appointments across 14 features (age, wait time, etc.) using Excel and Power
  Query to identify key drivers of patient no-shows/absences.
- Identified key no-show drivers and delivered a timelined proposal projected to **reduce no-shows by 15%, saving** \$157,000 annually in operational costs.
- Built an **Excel dashboard** with targeted KPIs and story-driven visualizations that highlight trends of key features related to no-shows to support clinic decision-making.

## Data Scientist - Remote Kinematic Analysis for Mobility Scooters

Spring 2024–Winter 2024

- Undergraduate Research Capstone
- Developed real-time inference safety metrics using Python OpenCV and human pose estimation to enhance safety for mobility scooter users.
- Integrated Firebase backend to manage 388K+ video frames processed through a team-developed Android
   Studio app to identify rider risk factors.
- Collaborated with clinicians and engineers in a **multi-institution team** as part of a \$470K+ U.S. NSF-sponsored project to guide accessibility research.

## Machine Learning Engineer - Fake News Detection NLP Model

Winter 2024

- Senior Capstone
- Applied Word2Vec and TF-IDF techniques to a labeled dataset to preprocess and vectorize a dataset of 11,000+ political statements for truthfulness classification.
- Trained and benchmarked 5 supervised classification models (Logistic Regression, CNN, SVM, RNN, KNN), achieving up to 27% accuracy on unseen data.
- Evaluated model performance using precision, recall, and F1-score metrics in Python (scikit-learn).

### Photogrammetry Automation Researcher - STARS Research Internship

Summer 2023

Undergraduate Research

- Optimized 3D model construction pipeline by automating the process of applying a plane onto an object as a **Blender** add-on using **Python**.
- Presented at the Annual CPP Creative Activities & Research Symposium (CARS) to faculty and industry partners.

### **HONORS AND AWARDS**

### University Honors - Dean's List, President's List

2020-2024

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

2013-2020

 Led 20+ volunteers to prepare a local elementary school for natural disasters through education and preparedness planning

### **TECHNICAL SKILLS AND INTERESTS**

**Languages & Tools:** Python, SQL, Excel, Tableau, PowerBI, Java, JavaScript, HTML, CSS **Concepts:** Data Analysis, Machine Learning, Computer Vision, NLP, Data Structures

Coursework: Big Data Analytics, Machine Learning, Cloud Computing, Software Engineering