

# Eric Pedley

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## EDUCATION

### University of California, Irvine

Coursework: Linear Algebra, Discrete Math

September 2021 - June 2025 (Expected)

### De Anza College (Dual Enrollment)

GPA: 3.95

September 2020 - August 2021

Coursework: Data Structures, Python Programming, C++ Programming, x86 Assembly Language

## SKILLS

**Languages:** Python, C++, Java, JavaScript, HTML, CSS, x86 Assembly

**Frameworks:** OpenCV, TensorFlow, NodeJS, React, Flask, Bootstrap

**Technology:** Git, Linux, Heroku, Firebase, MongoDB, PostgreSQL

## PROJECTS

### COMPUTER VISION WEB GAME BOT

C++, OPENCV

Used template matching to locate sprites on a screen and performed calculations to know what input should be fed to the game. Got recognition from the game's creator.

### POSTURE CORRECTION WITH AI

PYTHON, TENSORFLOW, FLASK

A website that captures video through your webcam and passes it to a Convolutional Neural Network which classifies you as sitting up straight or not, and gives reminders when you're been sitting with bad posture for too long.

### SCHOOLGY PLUS CHROME EXTENSION:

JAVASCRIPT

Fixed a bug in a Chrome browser extension that adds extra features to the Schoology website like what-if grades.

### SPOTIFY TO YOUTUBE PLAYLIST CONVERTER

REACT, NODEJS, OAUTH, PUPPETEER, MONGODB

Website where a user logs in with Spotify and YouTube and can copy all songs in a Spotify playlist into a YouTube playlist using both services' APIs, and Puppeteer to do the YouTube searches to reduce API quota usage.

### VIDEO CLIP EDITING SITE

REACT, NODEJS, FFMPEG

Made website where user uploads video, then it is automatically captioned with IBM's speech-text API and cut into 1-word-long chunks for the user to rearrange with a drag-and-drop menu, then export to an mp4 to download.

### FANTASY SPORTS WEBSITE

JAVA, REACT, POSTGRES SQL

Wrote REST API from scratch using Java websockets that gets data from a Postgres database and serves to frontend. The website is for tracking points in my friends' Fantasy Cross Country league.

## WORK EXPERIENCE

### CODING INSTRUCTOR | CODE FOR FUN

Los Altos, CA | June 2021 – Present

Taught web development and python programming. Receive lots of positive feedback from students and parents.

## AWARDS

Eagle Scout (2020)

National Merit Finalist (2020)