Eric Pedley

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EDUCATION

University of California, Irvine   September 2021 - June 2025 (Expected)
Coursework: Linear Algebra, Discrete Math

De Anza College (Dual Enrollment)   September 2020 - August 2021
GPA: 3.95
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.

SCHOOLOGY PLUS CHROME EXTENSION: ⬈   JAVASCRIPT
Fixed a bug in an open-source Chrome browser extension with over 50k users 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, POSTGRESQL
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)