

Owen K. Yang

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EDUCATION

University of California, San Diego

San Diego, California

B.S. in Data Science

Expected Graduation, June 2026

- **Related Coursework:** Data Structures & Algorithms, Principles of Data Science, Introduction to Statistical Analysis, Theoretical Foundations of Data Science, Introduction to Research Methods

PROJECTS

Facial Emotion Detector

San Diego, California

Team Member

Jan 2024 – Present

- Developing a Facial Emotion Detector with colleagues from UCSD Data Science Society using PyTorch and a CNN deep learning architecture to analyze intricate facial layers from shapes and shadows to defined wrinkles and dimples.
- Utilizing a Kaggle dataset to train the model of emotions such as happiness, disgust, surprise, anger, and fear.
- Enhancing the project's realism by incorporating the Deepface library to handle variations in facial expressions and improve overall detection performance.

Personal Portfolio Website

San Diego, California

Personal Project

Dec 2024 – Present

- Developing a dynamic personal portfolio website using HTML, CSS, and JavaScript.
- Implementing engaging animations through CSS and JavaScript to enhance user interaction and create a visually appealing user experience.
- Ensuring responsiveness across various devices, demonstrating the ability to design and optimize the portfolio for seamless viewing on both desktop and smaller screens.

Targify.io

San Diego, California

Team Lead

June 2023 – Oct 2023

- Deployed a Google Cloud Function that creates up to 1000 virtual machines simultaneously to record and edit personalized videos and created a Next.js app hosted on Vercel that generates unique landing pages for each video.
- Developed a web scraping program using Selenium that retrieves information about prospects' work experience and personal profile through LinkedIn and generates a personalized first line to an email using OpenAI's LLM APIs.
- Designed the front-end UI using Bubble.io, custom HTML, CSS, and vanilla JavaScript.

Image Processor

San Diego, California

Personal Project

Feb 2023 – March 2023

- Developed an application using Python, leveraging the power of NumPy and Pillow libraries for efficient image manipulation, including rotation, color changes, grayscale conversion, negative conversion, and overlay functionality.
- Implemented a KNN deep learning architecture for image classification within the app, which labels images based on provided image files to the application.
- Enabled users to save processed images directly to their computers, providing a seamless and user-friendly experience for image editing and classification tasks.

ACTIVITIES

DS3 Data Science Student Society

San Diego, California

Project Committee

Dec 2024 – Present

SKILLS

Programming: Java, Python (Pandas, Selenium, PyTorch, Pillow, NumPy), JavaScript (Node.js, Next.js), HTML/CSS, MATLAB

Tools: IntelliJ, VSCode, Eclipse, Jupyter Notebooks, Git, GitHub, Bubble.io, Tableau, Excel