

# Matthew Dang

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CS undergrad specializing in AI/ML and full-stack development. Experienced building intelligent web apps using PyTorch, Flask, React, and Selenium. Seeking AI internship to apply deep learning skills to real-world problems.

## Education

**B.S. in Computer Science**, University of California, Irvine

June 2023 - 2026

- **Relevant Coursework:** Introduction to AI, Machine Learning and Data Mining, Information Retrieval
- **GPA:** 3.7

## Projects

### Starbase

2025

- Built a full-stack web application using **Flask** to deliver personalized clothing recommendations based on user-selected styles (e.g., casual, streetwear, formal).
- Developed a **K-Nearest Neighbors (KNN)** recommendation engine powered by **pretrained ResNet50 CNN embeddings (PyTorch)** for fast image similarity search across thousands of products.
- Automated product data collection by building **Selenium web scraping pipelines**, extracting clothing images (**5000+**) and metadata (price, color, product urls) from **H&M, Zara, Abercrombie**.
- Engineered a scalable backend that organizes images by style and color variations, dynamically generating user recommendations based on embedding similarity, user quiz preferences, and a favoriting system.

### DJ-AI

2024

- Built a deep learning model that recommends remix-compatible EDM tracks based on **audio similarity and musical metadata (BPM, key)**
- Trained a **Siamese neural network** using contrastive loss and mel spectrogram embeddings extracted from **480+** SoundCloud tracks
- Scraped Beatport using **Selenium** to enhance training pairs with accurate BPM/key metadata

### ZotLabs

2024

- Built a **React + Vite** web platform enabling UCI undergraduates to explore and apply to faculty research opportunities
- Integrated **Supabase** for authentication, database queries, and session management
- Collaborated in a student dev team to deliver a live prototype with modular, scalable component architecture
- Won **"Best User Experience"** award out of 10+ student dev teams for intuitive and polished interface

## Experience

**FUSION ICS Developer**, UC Irvine, CA

2024 - Current

- Built full-stack academic tools using React and Supabase for real-time data syncing and access control
- Collaborate in Agile sprints to track progress toward milestones using visual tools and consistent scheduling.
- Engage in team communication platforms to provide updates, clarify tasks, and support collaborative decision-making.

**Self CS Tutor**, Sacramento, CA

Summer 2024

- Reviewed classwork and assisted with homework in Python language to boost students' understanding of assignments.
- Helped students develop critical thinking skills and study habits to improve grades.
- Applied learning strategies to assist students with concepts.

## Technical Skills

- **Development:** Python, Javascript, HTML, React, Expo, NodeJS, ExpressJS, Firebase, Flask, SQLAlchemy, Pytorch, Scikit-learn, Selenium, Supabase