

# CODY LEJANG

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## EDUCATION

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### University of California, Los Angeles (2021-2025)

*Bachelor of Science, Cognitive Science, Specialization in Computer Science, Data Science Engineering Minor*

Coursework:

- Object Oriented Software Development, Data Structures and Algorithms, Linear Algebra, Statistics, Decision Theory, Machine Learning, Data Science, Signal Detection Theory, Natural Language Processing, Database Systems, Human Computer Interaction

Extracurriculars: *UCLA Badminton: Athlete* (2021-2024), *Team Manager / Safety Officer* (2022-2023)

### Carnegie Mellon University (2025-2026)

*Master of Science, Data Analytics for Science*

## EXPERIENCE

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### SYNAPTIC (NEWPORT BEACH)

Mar 2024 - Mar 2025

#### *Software Developer*

- Provided financial advisors with a daily updating, dynamically optimized portfolio, outperforming static allocations by 15% and beating the S&P 500 over a one year period
- Synthesized insider transactions, trend projections, and cash flow information into lag regression model using Python by aggregating ORATS API, pypoft, and time series databases
- Developed an LSTM neural network predicting stock trends from time series databases, achieving a root mean squared error of less than \$7 on a new data set
- Constructed an ETL-style pipeline using Python, Git, and shell scripting, improving runtime by 70%

### UCLA PERCEPTUAL PROCESSING AND COMPUTATIONAL LAB (UCLA)

Sep 2023 - Mar 2024

#### *Undergraduate Research Assistant*

- Engaged in geometric research on 3D visual perception under Dr. Xing, utilizing Anaglyph glasses and computerized holographic simulations, directly contributing to a depth perception PhD thesis
- Trained and supervised 10+ research assistants, maintaining data integrity and enhancing team efficiency
- Demonstrated skills in experimental protocol, statistical tests, and data analysis using Python frameworks

### KARDDER (LOS ANGELES)

Dec 2023 - Feb 2024

#### *UI/UX Intern*

- Collaborated with a team of 20 interns and designed 7 interface prototypes, based on Firebase analytics, tripled users' average session duration from 2.5 minutes to 7.5 minutes
- Conducted market research across 3 college campuses, 5 gyms, and 10+ popular venues, gaining insights from over 500 potential users to shape key product features and marketing strategies
- Spearheaded development of a location hotspot "heatmap" interface in Figma, increasing user engagement with real-time activity visualizations by an estimated 30% based on A/B testing results
- Contributed to features that resulted in a 15% boost in app retention during beta testing

## PROJECTS

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### Digiclo | React Native, Tailwind CSS, HuggingFace Transformers, PyTorch, MongoDB

- Implemented a minimalistic React Native UI with Tailwind CSS that lets users upload, browse, and filter their digital closet, storing information in a MongoDB backend
- Constructed an item auto-tagging system using a Hugging Face BLIP model on PyTorch
- Presented the app to 100+ students and professors at a UCLA-hosted HCI conference

### Eyewitness Testimony Simulation | Python, PsychoPy, Torch, MTCNN, Facenet

- Developed a signal detection experiment in PsychoPy to study the impact of exposure duration on eyewitness testimony, gathering data from over 30 participants. Constructed a computer vision pipeline using MTCNN and FaceNet to simulate a "machine witness," beating human performance on valid trials.

### Personal Portfolio Website | <https://codylejang.github.io/> | React, Tailwind CSS, Framer Motion, Vite

- Engineered an archive fashion-inspired personal site focused on typographic storytelling and minimalist design.
- Implemented animation logic with Framer Motion for free-flow interface

## SKILLS

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- Languages: Python, C++, R, SQL, HTML, Javascript, CSS, Bash
- Tools: Tensorflow, Huggingface, Pytorch, Scikit-Learn, React, Pandas, Figma, Git, MS Office