CODY LEJANG

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EDUCATION

University of California, Los Angeles (2021-2025)
Bachelor of Science, Cognitive Science, Specialization in Computer Science, Data Science Engineering Minor
Relevant 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)
Masters of Science, Data Analytics for Science

EXPERIENCE

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 time 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 300 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

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 30 participants. Constructed a computer vision pipeline using MTCNN and FaceNet to simulate a "machine witness," beating human performance on valid trials.

UCLA Machine Learning Coursework | *Python*, *Tensorflow, Matplotlib, Scikit-Learn, Pandas*

- Demonstrated in-depth knowledge of supervised and unsupervised machine learning, through derivations of neural networks, clustering, and regression algorithms on datasets, such as CIFAR10 and fashionMNIST

SKILLS

- Languages: Python, C++, R, SQL, HTML, Javascript, CSS, Bash
- Tools/Frameworks: Tensorflow, Pytorch, Scikit-Learn, Matplotlib, Jupyter, Pandas, NumPy, Figma, Git