

# Cheryl Stanley

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## Education

### University of California, San Diego

M.S. Computer Science and Engineering, Artificial Intelligence Specialization

June 2026

GPA: 4.0

### University of California, Santa Barbara

B.S. Computer Engineering

March 2024

GPA: 3.8

*Highlighted Coursework:* Recommender Systems and Web Mining, Statistical NLP, Machine Learning, Computer Vision, Artificial Intelligence, Deep Learning, Fundamentals of Database Design, Operating Systems, Advanced App Programming, Human-Computer Interaction.

## Skills

**Languages:** C++, Java, Python, Swift, Javascript / HTML / CSS, Typescript, C, Verilog, Assembly (MIPS)

**Tools:** PyTorch, TensorFlow, Jupyter, NumPy, Firebase, Azure DevOps, Git, Red Hat, NodeJS, React, MySQL, Docker

**AWS Services:** DynamoDB, Lambda, S3, SNS, SQS, EC2

## Experience

### UCSB Jeong Lab

*Undergraduate Research Assistant*

Santa Barbara, CA

June 2023 - June 2024

- Researched techniques in fairness in data sampling with Dr. Haewon Jeong, in order to enhance fairness in the crucial pre-processing stage of the AI pipeline.
- Created custom prediction tasks using the **Folktables Python package**, improved demographic parity and equality of odds of downstream tasks using **sklearn**, **pandas**, and **numpy** and visualized fairness metrics using **matplotlib**.
- Replicated research results of [Dr. Jeong's original paper](#) by experimenting with randomly sampled percentages of approximately 100K racial data points on large-scale mixed datasets.

### Artera

*Student Software Developer*

Santa Barbara, CA

Sept. 2023 - Mar. 2024

- Developed AWARE, a **Swift** app with a custom-built ML model for real-time biometric predictions on user intoxication level, which enacts safety measures based on the predicted level; worked alongside 5 teammates.
- Placed 2nd at the annual CS Summit (2024) hosted by UCSB.

### Lawrence Livermore National Laboratory

*Computing Intern*

Livermore, CA

June 2020 - June 2023

- Migrated the CAAS app from AngularJS to **Angular 2+**, increasing speed and efficiency.
- Automated record cleanup for the ACE web app using **AWS Lambda** to clean up database records at specified intervals and on detecting changes, reducing costs by 15%.
- Programmed a data ingestor which receives payloads from **SQS** and writes them to **DynamoDB** as a way to record remediation status.
- Created SAM applications to deploy AWS pipelines and optimized website latency by 25% using **AWS Cloudwatch** and **Lambda**.

## Projects

### NLP for Disaster Tweets (2024)

*Python, Tensorflow, SkLearn, Numpy*

- Made predictions using Python, NLP and sentiment analysis to predict if certain tweets are about disasters, summarizing my findings in a final research project report.

[github.com/NLP-Disaster-Tweets](https://github.com/NLP-Disaster-Tweets)

### Leetcode Task Manager Extension (2024)

*Javascript, Puppeteer, JsDoc, ESLint, Jest, Chrome DevTools, Figma*

- Deployed Chrome Extension which utilizes LeetCode website to save problems and track completion [github.com/Leetcode](https://github.com/Leetcode)
- Created a popup timer based on problem difficulty and used Puppeteer and Jest for end-to-end and unit testing

### AWARE (2024)

*Swift, Google Maps API, Twilio API, Uber API*

- iPhone/Apple Watch app using a Random Forest model for intoxication detection.

[github.com/AWARE](https://github.com/AWARE)

- Enabled users to send locations to contacts, call 911, and request rides.

### GauchosRide (2023)

*Java, Spring Boot, Maven, Google Authenticate, JUnit*

- Contributed to legacy code for a rideshare app supporting students with disabilities.

[github.com/Gauchoride](https://github.com/Gauchoride)

- Added backend CRUD operations and robust error handling.