

# Cheryl Stanley

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## Education

**University of California, San Diego** **June 2026**  
M.S. Computer Science and Engineering, Artificial Intelligence Specialization GPA: **4.0**

**University of California, Santa Barbara** **March 2024**  
B.S. Computer Engineering 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** **Santa Barbara, CA**  
*Undergraduate Research Assistant* *June 2023 - June 2024*

- Researched techniques in fairness in data sampling for different models (**Random Forest, Logistic Regression, SVM**) 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 equalized 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** **Santa Barbara, CA**  
*Student Software Developer* *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** **Livermore, CA**  
*Computing Intern* *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*  [Github](#)


- 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.

**Leetcode Task Manager (2024)** | *Javascript, Puppeteer, JsDoc, ESLint, Jest, Chrome DevTools, Figma*  [Github](#)

- Deployed Chrome Extension which utilizes LeetCode website to save problems and track completion
- 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*  [Github](#)

- iPhone/Apple Watch app using a Random Forest model for intoxication detection.
- Enabled users to send locations to contacts, call 911, and request rides.

**GauchosRide (2023)** | *Java, Spring Boot, Maven, Google Authenticate, JUnit*  [Github](#)

- Contributed to legacy code for a rideshare app supporting students with disabilities.
- Added backend CRUD operations and robust error handling.