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.

GauchoRide (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.