

# Cheryl Stanley

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## Education

University of California, San Diego  
University of California, Santa Barbara

*M.S. Computer Science and Engineering (Jun 2026) 4.0*  
*B.S. Computer Engineering (Mar 2024) 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. \* indicates Graduate-Level Course

## Skills

**Languages:** C++, Java, Python, Swift, Javascript / HTML / CSS, Typescript, C, Verilog, Assembly (MIPS)  
**Tools:** PyTorch, TensorFlow, Jupyter, NumPy, Firebase, Keil, LTSpice, Azure DevOps, Git, Red Hat (DBMS)  
**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, and visualized fairness metrics.
- 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

*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

### 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.

### GachoRide (2023)

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

- Contributed to legacy code for a rideshare app supporting students with disabilities. [github.com/Gachoride](https://github.com/Gachoride)
- Added backend CRUD operations and robust error handling.

### Dice Game (2020)

*HTML, CSS, JavaScript*

- Created a web-based dice game with custom CSS elements and randomized dice rolls. [github.com/Dicee](https://github.com/Dicee)