

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) 3.7

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

Highlighted Coursework:

- Machine Learning, Computer Vision, Artificial Intelligence, Deep Learning, Fundamentals of Database Design, Operating Systems, Advanced App Programming, Human-Computer Interaction

Experience

UCSB Jeong Lab

Undergraduate Research Assistant

Santa Barbara, CA

June 2023 - June 2024

- Researched techniques in fairness in machine learning/algorithmic bias with Dr. Haewon Jeong.
- Created custom prediction tasks using the Folktails Python package and visualized fairness metrics.
- Replicated research results 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.
- Enabled users to send locations to contacts, call 911, and request rides. **AWARE**

GaucheRide (2023)

Java, Spring Boot, Maven, Google Authenticate, JUnit

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

Dice Game (2020)

HTML, CSS, JavaScript

- Created a web-based dice game with custom CSS elements and randomized dice rolls. **Dice Game**