

# Cheryl Stanley

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*Software Developer with 3+ years of Professional Experience working with C++, Javascript, AWS, Python & Machine Learning for advanced cross-platform solutions*

## 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

## Experience

**UCSB Jeong Lab - Undergraduate Research Assistant**

**Santa Barbara, CA**

**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& visualized fairness metrics with random samples of approx. 100K data points

**Lawrence Livermore National Laboratory - Computing Intern**

**Livermore, CA**

**June 2020 - June 2023**

- Extended my initial summer internship for almost 3 years while I completed my degree in Computer Engineering at UCSB. Worked on 2 apps (CAAS and ACE) over the course of my internship, both used by thousands of employees at the lab
- Converted the CAAS application from AngularJS framework to the newest update Angular 2+ and optimized the app with new features and bug fixes using the updated framework
- Added a new ChangeLogs page, which used a database to query and write information on past versions, features/bugfixes, and release dates of CAAS from and display this in the web page to help users keep track of updates.
- Used Entity Frameworks for creating visual representations of views/models of databases, API calls and services, front-end, web api and backend development to make updates to the application .
- Created an AWS Lambda function - cleaned database records automatically at specified intervals, on detecting changes
- Created SAM (Serverless Application Model) applications to deploy AWS pipelines
- Programmed a data ingestor which received payloads from SQS and writes it to DynamoDB to record remediation status.
- Optimized website performance using AWS Cloudwatch and Lambda, achieving 25% reduction in latency on website loads.

## 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, utilizing Bag of Words, Neural Networks, and an advanced DistilBERT model to achieve an increased 83.64% accuracy from 73.64%, 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's website to save problems to a Todo list using the website's HTML, and automatically track completion status / time spent on problems
- Created a popup timer based on problem difficulty (Easy, Medium, and Hard) and used Puppeteer and Jest for end-to-end and unit testing

**AWARE (2024)** | *Swift, Google Maps API, Twilio API, Uber API*

**🐙 Github**

- Led a team of 6 to create a dual-platform iPhone / paired Apple Watch app, sponsored by Artera, coded entirely in Swift
- Coded a Random Forest model trained on gyroscope (X, Y, Z walking steadiness) and heart rate monitoring for automatic intoxication detection, which has only been done conceptually before in research papers
- Utilized Uber, Twilio, and Google Maps API to create safety features based on predicted intoxication level, enabling users to send locations to contacts, call 911, and request rides.
- Presented at the annual UCSB CS Summit (2024) in front of a panel of judges and won second place

**GauchosRide (2023)** | *Java, Spring Boot, Maven, Google Authenticate, JUnit*

**🐙 Github**

- Contributed to legacy code for a rideshare app connecting students at UCSB with disabilities to drivers who can enhance mobility by driving them to / from classes, adding backend CRUD operations and robust error handling

## Skills

**Languages:** C++, Java, Python, Swift, Javascript / HTML / CSS, Typescript, C,

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

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

## 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.