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**

Experience

UCSB Jeong Lab - *Undergraduate Research Assistant* — **June 2023 - June 2024**

- Researched techniques in fairness in data sampling for different models 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.

Artera - *Student Software Developer* — **Sept. 2023 - Mar. 2024**

- Built AWARE (Apple Watch Alcohol Risk Estimator), a dual-platform **Swift** app for iPhone and Apple Watch that detects user intoxication in real-time using gyroscope and heart rate data, which incorporates a custom Random Forest model trained on live **CoreMotion** and HealthKit data; implemented real-time processing by capturing 10-second sensor windows, calculating mobility metrics, and feeding them into the model for classification with 75% accuracy.
- Integrated **Uber**, **Twilio**, and **Google Maps APIs** to automate safety responses based on predicted intoxication levels, enabling live location sharing, emergency calling, and ride requests.

Lawrence Livermore National Laboratory - *Computing Intern* — **June 2020 - June 2023**

- Developed features and made improvements to 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.
- Utilized 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.
- Utilized 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 & Lambda**, achieving 25% reduction in latency on website loads.

Projects

NLP for Disaster Tweets (2024) | *Python, Tensorflow, SkLearn, Numpy* — 🐙 **Github**

- Developed an ML model to classify whether or not tweets were about disasters, utilizing Python, NLP and sentiment analysis and experimenting with different methodologies (Bag of Words, Neural Networks, and an advanced DistiliBERT) to achieve an increased 83.64% accuracy from an initial 73.64%, summarizing my findings in a final research project report.

Leetcode Task Manager (2024) | *Javascript, Puppeteer, JsDoc, ESLint, Jest, Chrome DevTools, Figma* — 🐙 **Github**

- Developed / deployed Chrome Extension which utilizes HTML from LeetCode's website to save problems to a Todo list, and automatically track completion status and time spent on problems.
- Created a draggable and customizable popup timer based on problem difficulty (Easy, Medium, and Hard) and used Puppeteer and Jest for end-to-end and unit testing.

GauchoRide (2023) | *Java, Spring Boot, Maven, Google Authenticate, JUnit* — 🐙 **Github**

- Constructed backend CRUD operations and robust error handling mechanisms to improve a legacy rideshare app connecting students at UCSB with disabilities to drivers who can enhance mobility by driving them to / from classes.

Skills

Languages: C++, Java, Python, Swift, Javascript / HTML / CSS, Typescript, C, Go
Tools: Angular, PyTorch, 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.