

Andrea Lee

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Education

University of Southern California, Viterbi School of Engineering

Expected Graduation: May 2024

B.S. Computer Science & Business Administration

Cumulative GPA: 3.32/4.0

- **Relevant Coursework:** Discrete Math, Data Structures & OOP, Introduction to Algorithms & the Fundamentals of Computing, Principles of Software Development, Software Engineering, Database Management Systems
- **Honors & Awards:** Google - *Generation Google*, USC Viterbi - *Doug Peacock Scholarship*, USC - *Dean's Honor Roll*

Relevant Experience

Google Cloud

New York, NY

Site Reliability Engineer / Software Engineer Intern

May 2023-August 2023

- Developed a Go binary to ensure the nodes in a Chubby cell have accurate access control lists in every directory or file
- Migrated core binary from Python to Golang for Chubby cell turn ups (used for Google File System & BigTable)
- Deployed these Go binaries into Google's automation infrastructure, Chubby Sisyphus so it is called in the data pipeline
- Achieved more than 95% testing coverage on the binary through unit testing and end-to-end testing in Golang & Python
- Developed and maintained documentation for my binary, reducing onboarding time for new engineers by 20%

Google Search

Mountain View, CA

STEP Intern

May 2022-August 2022

- Created an internal dashboard with HTML, CSS, C++ & OpenCV to showcase Google Lens' AI algorithm metrics
- Utilized OpenCV to annotate dataset images with precision and recall loss metrics to showcase on the dashboard
- Collaborated with another developer by delegating tasks and creating multiple design docs for our implementation
- Pitched and self-started a new implementation idea to my hosts and executed these new edits in my project

Lava Lab

Los Angeles, CA

Software Developer

August 2021-December 2021

- Designed and developed a product called "Pretzel" which connects influencers with restaurants for campaign marketing
- Coded the front end of Pretzel with JS, CSS, and HTML, backend with firebase, and utilized Instagram's login API
- Brainstormed product idea, conducted user interviews with the designer, and designed the product's implementation
- Maintained regular communication about the development progress and aligned my team about our key objectives

Stanford University

Palo Alto, CA

Bioinformatics Research Intern

May 2021-August 2021

- Utilized Imaris Imaging to segment and visualize neurons and supportive glial cells within the organoid culture
- Quantified calcium levels within images of cerebral organoids to determine the level of neuron activity within the culture
- Analyzed data to prove the hypothesis that cerebral organoids have neurons and glial cells with calcium activity
- Presented my findings through a scientific poster to Stanford professors and researchers at a final conference

Projects

Wallflower

USC Experiential Learning Center

JavaScript, Node.js, React, MySQL

Jan 2024-May 2024

- Wallflower is an exercise that USC professors run to teach students related Business course concepts for USC Marshall
- Organized the MySQL backend so that professors could run separate sessions and collect student data for each session
- Developed several APIs to display backend data to the frontend & fixed API endpoints so that the data was stored properly
- Documented installation and loading of the website, reducing onboarding time by 50% for my team members

SoCal Beaches For Life

USC - Software Engineering

Java, Firebase, Object Oriented Programming, Google Maps API

December 2022

- Created a mobile application that finds the user's location & showcases 5 nearby beaches, parking lots, & restaurants
- Users are able to register, login, and logout, they can route to beaches & nearby key locations through Google Maps API
- Users can write & view reviews of beaches, favorite beaches & view their favorites, & save their last beach trip
- Served as the scrum master and managed by team with agile methodologies to ensure we would finish by our deadline

SalEats

USC - Principles of Software Development

Java, SQL, HTML, CSS, Google OAuth API, GSON API, MySQL API, React

May 2022

- Created a full stack web application that takes in a JSON file of all available restaurants and showcases all restaurants
- Users are able to search up restaurants, favorite restaurants, login/logout, and view a dashboard of available restaurants
- Utilized the Google OAuth API for users to login to the website & store the user's data into SQL with MySQL API

Skills & Interests

- **Skills:** Agile, Leadership, Backend Development, Databases, Troubleshooting, Problem Solving
- **Technologies:** Python, Golang, C++, Java, JavaScript (NodeJS, ReactJS), SQL (MySQL, NoSQL), HTML, CSS, R
- **Interests:** Fashion, Content Creation, Marketing, Fencing, Boulder, Traveling, Cooking, and Baking