

ALLISON TEARJEN

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EDUCATION

University of California, Davis

B.S. Computer Science 2020

B.S. Chemical Engineering 2020

GPA 3.5/4.0, University Honors Curriculum

Florence, Italy Study Abroad Program- Product Management Internship; Courses: Italian, Fashion, Marketing

Best Senior Design Thesis Project - Department Wide

Dec. 2020

PROFESSIONAL EXPERIENCE

Goldman Sachs, **Software Engineering Intern**, New York City, NY

July 2020 - Aug. 2020

- Utilized Java and Maven to develop a currency related API service with an improved user experience that was used by 40,000 clients and was recognized by firm partners.
- Implemented the API service with a proprietary language in the quality assurance system for proof of concept which eliminated 20% of all false missing data alerts.
- Aggregated a global holiday calendar to alert users when specific foreign exchanges would be closed working with colleagues across 3 continents.

Bouncer, **Software Engineering Intern**, Remote

Mar. 2020 - June 2020

- Built application tools in fast paced startup environment that were critical to attracting new wealth and securing funding.
- Integrated video in web application using React, Python Flask, and Google Datastore to demonstrate the functionality and how to integrate the Bouncer API which increased API usage.
- Developed android application for experimental testing of Bouncer's credit card fraud detection API for 1000 target users.

Zillow Group, **Software Engineering Intern**, San Francisco, CA

June 2019 - Aug. 2019

- Learned Java, Kotlin, Dagger 2 and clean code principles in 10 weeks; shipped several features during tenure.
- Reduced testing time by 98% by automating feature flag process for product managers, quality assurance, and engineers.
- Implemented Android slices to remind users to update their contacts thereby increasing app engagement by 95%.
- Won 1st place in company wide hackathon for prototyping a social media network for the office dogs and was deployed for Zillow internal use.

Procter and Gamble, **Data Engineering Intern**, Sacramento, CA

June 2018 - Sept. 2018

- Improved accuracy of maintenance prediction by 30% by using machine learning with Google ML.
- Used binary search algorithm to activate efficient $O(\log n)$ searches for identifying manufacturing term investment planning windows.
- Achieved automation capability in plant by implementing a wireless portable level indicator for chemical holding tanks.

TECHNICAL SKILLS

Python, C++, React, Bootstrap, Node.js, Android Development, Express, Python Flask, MongoDB, Git/Github, Matlab

PROJECT EXPERIENCE

Hotdogs

July 2019 - Sept. 2019

- Won first prize in company wide innovation week hackathon at Zillow Group and have a deployed version in beta to be integrated for Zillow internal use.
- Deployed a full stack web application that is a social media platform for dogs.
- Built login and signup experience, autocomplete feature and filter feature for the search bar.
- App uses React, Node.js, Express and MongoDB.

Lango

Apr. 2019 - June 2019

- Deployed a language learning platform as a full stack web application.
- Built Google OAuth integration for secure authentication and Google Translate API for a database storage of new flashcards.
- Implemented greedy algorithm for a review feature of the app that would show flashcards more often if they were consistently not answered accurately.
- App uses React, Node.js, Express and MongoDB.

Simple Shell

Sept. 2020 - Oct. 2020

- used C to develop a simple shell using clean code and architecture principles for operating systems class.
- implemented output redirection, piping, builtin commands such as cd and pwd by parsing input from the command line.
- wrote tests and error handling functions in C from understanding operating systems principles and the lifecycle of a shell.

LEADERSHIP EXPERIENCE

Project Manager: **Engineers Without Borders - Davis Chapter**

Sept. 2016 - Sept. 2018

- Managed group of 15 engineers and \$13,000 budget to implement latrines for a 250 person Bolivian village.
- Executed crucial preliminary steps of research for the design of sustainable sanitation infrastructure through household interviews and scientific experimentation.
- Lead the design, development, and translation of educational materials for proper hygiene and sanitation practice for the village.

President: **Davis Computer Science Club**

Sept. 2018 - June 2020

- Directed one of the largest organizations at my university impacting 4,000 students and alumni.
- Mandated an aggressive fundraising goal that increased net profit by 150%.
- Managed a 10 person team which support design, technology, marketing, and finances for the organization.