

SIMONNE CONTRERAS

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Education

University of California, San Diego

📅 Expected Grad: June 2022

- Pursuing Bachelor of Science in Computer Science
- Minor in Design

Cumulative GPA: 3.85

Employment

Software Engineering Intern | Twitter

📅 June 2020 - September 2020

- Using React, Scala, and Figma, made core improvements to an outdated internal form in order to ensure advertiser trust in the Twitter brand, prevent loss of revenue, and reduce overhead for engineers in debugging issues that arise with advertisements.
- As a full stack engineer, added response and validation logic in Scala, drafted new UI features in Figma, met with Project Managers frequently, and built out the proposed UI features in React.

Undergraduate Tutor | University of California, San Diego

📅 April 2019 - Present

- Tutor for Software Engineering, Data Structures & Object Oriented Design, and Software Tools & Techniques (CSE 110, 12 & 15L respectively) with Instructor Gary Gillespie as well as for Advanced Data Structures (CSE 100) with Instructor Niema Moshiri.
- Provide students with targeted assistance in their coursework during office hours. This coursework consists of utilizing data structures to solve theoretical problems and creating web and mobile applications from scratch.
- Prepare feedback on students' work as well as advice on best debugging practices in order to create better and more mindful programmers.

STEM Program Leader | THINK Together

📅 January 2018 - May 2018

- Taught STEM Classes with a focus in coding, aerodynamics, structural engineering, and chemistry to elementary aged children in an after school program.
- With a total of 60 students, achieved a 90% passing rate on assessments in accordance with lesson plans and learned how to manage groups of people better, figuring out the best ways to deliver content, instructions, and expectations.

Projects

Autograder | Web Application

📅 October 2019 - Present

- Front End Design Lead and Developer of the UCSD CSE department's queuing and automated grading website (autograder.ucsd.edu).
- Autograder is used by approximately 2000 UCSD CSE students on a daily basis and considering the new virtual nature of university, it has become crucial in connecting students with academic help in core classes.
- Lead a team of peers in redesigning our UI with newer technologies by migrating to a newer React & Axios stack paired with the popular Material UI Framework.

Almonds | Mobile Application

📅 March 2020 - June 2020

- As a Front End Design Lead and Developer, created an application for the CCAGA with the goal of digitizing and simplifying their process for stockpiling and shelling almonds.
- Using React Native and React Navigation, created a multi platform dynamic application for the cataloging of almond truckloads and their algorithmic placement.
- Over 10 weeks with 9 other peers, designed and constructed a fully functional application for the internal use of the CCAGA with support for different role types and actions of employees in accordance with current processes.

Professor Salary Predictor | Model

📅 March 2020 - June 2020

- Scraped the UC Payroll Ledgers and UCSD Professor Recommendation website for data on UCSD Professors to answer a research question regarding the salary of Professors at UCSD.
- Used the pandas library within Python to standardize the collected data sets and find correlation amongst and between different measured factors.

Skills

Languages | JavaScript, Java, Scala, Python, C, C++, Haskell

Tools | React, React Native, Material UI, React Navigation, Axios, Figma, pandas, Git, Unix, Docker