

Simon Zhang

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EDUCATION

University of Southern California

Bachelor of Science in Computer Science GPA: 3.84

Los Angeles, CA

August 2019 – May 2023

EXPERIENCE

Undergraduate Teaching Assistant for CSCI-104

University of Southern California

August 2021 – Present

Los Angeles, CA

- Hold office hours to help students in Data Structures and Object Oriented Design
- Lead weekly lab sections of over 30 students to recap key concepts from lecture

Data Engineer Intern

Sailpoint Technologies

June 2021 – August 2021

Austin, TX

- Worked with data engineering team to research and assist in integrating Snowflake to Sailpoint's data infrastructure as part of transition from ETL to ELT
- Created and deployed on Jenkins a Docker container to pull SQL files from S3 and automate execution of DDL commands on Snowflake
- Migrated existing data transform functions to Snowflake UDFs, decreasing runtimes by an average of 50%

Undergraduate Research Assistant

InfoLAB at USC

March 2021 – September 2021

Los Angeles, CA

- Created data preprocessing pipeline for machine learning research project to attribute user GPS pings to points of interests
- Implemented StayPoint Detection Algorithm in Python - finds 50k points of interest from 2.4M GPS pings in 30s
- Created full stack Django web-app to visualize GPS points and POI polygons using Google Maps API for labelling and collecting training data

Web Development Intern

Columbia University IT

April 2020 – August 2020

New York, NY

- Migrated static legacy websites of 4 departments to Drupal CMS
- Updated site interfaces and reduced time spent implementing future updates by 20%
- Resolved various issues in Angular components that would cause data to not load
- Improved interface of custom views displays in Drupal using Twig

Software Engineer Intern

Sterling Medical Devices

August 2018 – August 2019

Rochelle Park, NJ

- Created a web app based plugin for an ALM software (Polarion) using HTML/CSS, JavaScript, Java, and JSP
- Implemented verification checker and export to PDF features, streamlining and reducing time spent on document verification process by 15%
- Resolved functionality and interface issues in external Apache Velocity scripts

PROJECTS

Event Coordinator and Webmaster of USC Math Club | *React, Gatsby*

February 2021 – Present

- Developed and maintain club website showcasing club members and events
- Organize social math-based events such as BBQs, game nights, grad student panels, and career panels

Pikapulls - HackSC Submission | *JavaScript, PlotlyJS*

February 2021

- Developed website using PlotlyJS to run and display Monte Carlo simulations of the Coupon Collector's Problem

ClassChat - HackDavis submission | *Angular, Firebase, Google Cloud Platform*

January 2021

- Developed a web-app based chatroom with the purpose of being used in the classroom

Head Organizer of Hack River Dell | *HTML, CSS, JavaScript, Bootstrap*

November 2017 – November 2018

- Raised \$5,000 for a 24-hour high school hackathon with over 100 attendees
- Developed and maintained the website to promote the event

TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript, HTML/CSS

Technologies: NumPy, pandas, Django, Docker, React, Angular, Jenkins, Bootstrap, JSP, JQuery, Twig, Git