

# Simon Zhang

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## EDUCATION

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### University of Southern California

*Bachelor of Science in Computer Science GPA: 3.84*

Los Angeles, CA

August 2019 – May 2023

## EXPERIENCE

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### Undergraduate Research Assistant on NSF Grant

*InfoLAB at USC*

March 2021 – Present

*Los Angeles, CA*

- Implemented StayPoint Detection Algorithm in Python and NumPy, finding 50k points of interest from 2.4M GPS coordinates in 30 seconds

### 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

### Computer Science and Math Teacher

*Huaxia Bergen Chinese School*

March 2016 – May 2019

*Paramus, NJ*

- Taught a class on web design and Python scripting
- Taught 2 classes on Algebra and Geometry for competition math
- Worked weekly with up to 20 students per class

## PROJECTS

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

February 2021 – Present

- Developed and maintain club website showcasing club members and events using Gatsby and React
- Organize social math-based events such as game nights, grad student panel, and career panel

### Pikapulls - HackSC Submission | *JavaScript, PlotlyJS*

February 2021

- Developed website using PlotlyJS displaying Monte Carlo simulations of Pokemon pack openings

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

January 2021

- Developed a chatroom web-app using Angular, Firebase, and hosted on Google Cloud Platform

### 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 using HTML, CSS, and JavaScript

## TECHNICAL SKILLS

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

**Technologies:** NumPy, pandas, React, Angular, Flask, Bootstrap, JSP, JQuery, Twig, Git, Docker