

Tianrong Zhen

<https://thomaszhen.github.io/tianrongzhen/>

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Education

- **San Francisco State University** San Francisco, CA
Master of Science in Computer Science Aug. 2019 – Dec. 2020
- **University of California, Santa Cruz** Santa Cruz, CA
Bachelor of Science in Computer Science Aug. 2017 – July. 2019

Programming Skills

- **Frontend:** JavaScript, HTML5, CSS3, JSON, D3.js, Bootstrap, Angular, JSP
- **Backend:** Java, C++, C, Python, Spring Boot, Servlet, Node.js
- **Storage:** MySQL, PostgreSQL, MongoDB
- **System Tools:** Windows, MAC OSX, Linux, RESTful API
- **Dev Tools:** Git, Eclipse, NetBeans, Vim, Android Studio

Experience

- **TaoBase INC.** San Jose, CA
Software Engineer Intern June 2020 - August 2020
 - **Front end:** Build web pages for the company. Use the technologies of HTML, CSS, JavaScript, Bootstrap. Practiced Agile software development cycle while building the web pages. Built the web pages so they can be viewed on mobile devices.
- **San Francisco State University** San Francisco, CA
Lab Assistant January 2020 - December 2020
 - **Research:** Cooperated with a professor to do research on how to visualize a data set.
 - **Collaboration:** Collaborated with other graduate students to discuss data visualization, and practiced using different libraries and tools to do data visualization.
 - **Data Visualization Tool Building:** Built a web application to visualize a data set from Facebook.
- **University of California, Santa Cruz** Santa Cruz, CA
Tutor December 2018 - June 2019
 - **Tutoring sessions:** Tutors students individually or in scheduled group study sessions to review principles, solve problems, and review for tests. Researches and selects learning materials, textbooks, software, and equipment to facilitate tutoring; design specific handout, study, and related materials.

Projects

- **Facebook data visualization:**
 - * Display Facebook relationship data sets in a graph, provide data facts about the data set.
 - * Used D3.js for the displaying, and HTML, CSS for front end and Socket.io and JavaScript for the back end.
- **Blog:**
 - * Built a personal blog to display pictures and moments.
 - * Used the technologies of HTML, CSS and JavaScript and Bootstrap.
- **Refrigerator App:**
 - * An web application that user can used to record what he/she is digesting every day and the application can show the amount of energy the user consume that day.
 - * The technologies used for this project are HTML, CSS, Python, and Express.
- **Calories Tracker Android App:**
 - * An android application that can keep track of how many calories the user consumes that day.
 - * Android studio is the main tool for development. Used the language of Java and JavaScript for development.
- **Simple Shell:**
 - * A simple shell that can provide some basic OS functionality like change directory, create a file, copy a file, delete a file and move a file etc. Used the language of C
- **Dynamic Web page:**
 - * A simple dynamic that can retrieve data from MySQL database and display on the web page bases on the user input. The user can retrieve data from the database base on a specific column of the database.