

# Alain Zhang

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## ABOUT ME

Dedicated university student interested in learning more about information technology, bioinformatics, information security, and real-world software design applications.

## EDUCATION

### **B.S. in Data Science, Mathematics - Computer Science**

University of California, San Diego  
09/22 - 06/2026  
GPA: 3.872/4.00

## LINKS

 <https://github.com/SirPuddinlot>  
 [www.linkedin.com/in/alain-zhang-672086205/](http://www.linkedin.com/in/alain-zhang-672086205/)

## HONORS & AWARDS

05/2021 - Cyberpatriot XIII Finalist 8th Place All-Service Division

07/2020 - Southern California Cyber Cup Challenge Finalist 7th Place

04/2021 - Cyberstart Scholar

## INTERESTS

**Cybersecurity** - Hobbyist 08/2018 - Present

- Semi-regular competitor in various jeopardy-style CTFs.
- CCDC and Hivestorm competitor.

**CalAnime Newsletter** - Copy-editor

03/2020 - Present

- Copy-edit articles before publication.
- Usually revise game and gacha-oriented articles by writers.

## CERTIFICATIONS

03/2019 - Certification of Completion for Autopsy: Digital Forensics

03/2020 - Certification of Achievement for JROTC CyberPrep

## LANGUAGES

- Native English - Speaking, Writing, Reading.
- Fluent Japanese - Speaking, Reading.

## EDUCATION

### **Relevant Coursework** -

09/22 - Present

- Calculus 1, 2, 3; Linear Algebra.
- (Intended 2023-24) Data Structures and Object-Oriented Design, Discrete Mathematics and Graph Theory, Theory of Computation, Probabilistic Modeling and Machine Learning, Computer Networks, Introduction to Analog Design.

## WORK EXPERIENCE

### **Fisch Bioinformatics Laboratory** -

07/23 - Present

- Research Intern.

### **San Diego Unified School District JROTC** - Comms Cyber Officer

07/2021 - 09/2021

- Reorganized and updated the SDUSD brigade website with local scholarship information and joint events between high schools.
- Achieved Lieutenant Commander through 3 years of the NJROTC program.

### **Patrick Henry NJROTC** - Signal Officer

01/2021 - 09/2021

- Configured routers and hubs for classroom use.
- Managed sound equipment on the field for NJROTC events.

## PERSONAL PROJECTS

### **Game Development - Unity Roguelike**

09/2022 - Present

- Making models using ZBrush to import into Unity.
- Autodesk Maya for nonsculpted objects to import into Unity.

### **Streaming Server**

08/2022 - 08/2022

- Hosted nginx-rtmp server using AWS.
- Used ffmpeg to play video files on a server over internet.

### **Full Stack Development - Mock Stock Portfolio App**

04/2022 - 06/2022

- Developed a mock app to add and delete stocks with real-time data using Yahoo Finance API.
- Used AWS Lambda, AWS API gateway and AWS DynamoDB for the backend, and React.js/ReactStrap Library with Node.js for the frontend.
- Deployed using AWS Amplify.

### **The Library - Content Driven Design**

02/2022 - 03/2022

- Created a relational database to track patrons' library card numbers and books on and off their accounts.
- Made frontend UI using HTML and PHP.
- Hosted using Apache Web Server in a Cloud9 Ubuntu Server environment, set-up project with MySQL phpmyadmin.
- Created own csv dataset to use in the project.

### **Big Bang Theory Episode Directory**

12/2021 - 02/2022

- Built a single-page app in React using a previously made ExpressBBT API to provide episode descriptions and images.

### **Big Bang Theory API**

10/2021 - 12/2021

- Developed an API, configuring BBT routes to execute callback functions for any http call. Used Express.js framework and Javascript. Deployed as a firebase cloud function to be used in Big Bang Theory Episode Directory.
- Used BBT json dataset to fuel the project.

### **Chat-App**

12/2021 - 01/2022

- Created a real-time Chat-App using Firebase for backend and React for frontend.
- Made various react components for user input, object state, and logs under a simple data model.

## TECHNICAL SKILLS

- Languages: JavaScript, Java, Python, C, HTML, CSS, Bash/Batch, Powershell.
- Frameworks: React, Express, Node.js.
- Databases: Firebase Realtime, MySQL.
- Version Control: Git
- Software: Ghidra, Autopsy, Postman, Burp Suite, Wireshark