Alain Zhang

atzoo1@ucsd.edu | +1 (619)-248-0880 | San Diego, California 92119

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: 3.87/4.00

LINKS

- github.com/SirPuddinlot
- linkedin.com/in/alain-zhang
- sirpuddinlot.github.io

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
- (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 -   09/2023 - Present
- Research Intern.

MDVIP - Database Management Intern   06/2023 - 09/2023
- Optimized database connections in Jitterbit API to reduce running costs by 15 percent
- Developed database for insurance data conversion into hex format, enabling PDF generation accessible through Salesforce with SQL Server Management Studio

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.

PERSONAL PROJECTS

Streaming Server   08/2022 - Present
- 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
- Clubs: Association for Computing Machinery (ACM), IEEE, and Women in Computing (WIC)