

Matthew Chiang

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EDUCATION

University of California, San Diego

La Jolla, California

B.S. Mathematics and Computer Science, 3.9 GPA

Expected Graduation: June 2027

- Coursework: Data Structures and Algorithms, Object-Oriented Programming, Numerical Analysis, Graph Theory

Piedmont Hills High School

San Jose, California

Valedictorian, ranked 1 out of 464, 4.4 weighted GPA

August 2019 - June 2023

- President's Award of Academic Excellence and Leadership Excellence Award (2023)
- Activities and Societies: Varsity Volleyball Captain, Student Body Executive President, Academic Tutor

TECHNICAL SKILLS

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

Tools: Git, FastAPI, PostgreSQL, SQLAlchemy, Restful APIs, Alembic, MongoDB, Heroku, MATLAB

Frameworks: ReactJS, NodeJS, ExpressJS, Nox, VITE

EXPERIENCE

CodeDay Bay Area

San Jose, California

Software Developer Intern

September 2023 - October 2023

- Developed and optimized **test functions** for the **official Python client library** that facilitates easier access to Google's Discovery Based API's by reducing code written by over **80 percent**, used by **170k+ users**.
- Actively crafted **47** comprehensive test cases and functions, increasing overall test coverage by **60+** percent.
- Demonstrated proficiency in various testing frameworks and tools, including **unittest** and **nox**.
- Gained practical experience with workflows, utilizing **Git/GitHub** for forking, merging, and pushing changes.

Residence Hall Security System

Lead Software Developer

October 2023 - January 2024

- Spearheaded front-end **UI/UX** development application including light/dark mode options and push notifications.
- Handled front-to-back integration utilizing **Express.js** for routing and handling HTTP requests and responses.

Social Media Application (personal project)

August 2023 - Present

- Fully redesigned social media backend using a robust **API** and a dynamic **SQL** database to handle information.
- Implemented industry-standard login-system (**OAuth2**), requiring users to login before sending requests.
- Integrated a **PostgreSQL** database and utilized **SQLAlchemy** for handling content, users, friends, likes, etc.
- Successfully deployed the **FastAPI**-based application on **Heroku**, leveraging containerization and continuous integration/continuous deployment (**CI/CD**) pipelines as well as **Alembic**, handling up to 20 concurrent users.

Digital Store (personal project)

November 2023 - Present

- Engineered feature-rich online store from the ground up, utilizing the **MERN** stack for cohesive integration.
- Built backend using **Express.js** and **Restful APIs** alongside **MongoDB** database for retaining store contents.
- Customized website UI/UX using **VITE** framework and **TailwindCSS** in order to increase visual appeal.

LEADERSHIP EXPERIENCE

Berryessa Branch Library

San Jose, California

Academic Tutor

August 2019 - Jan 2022

- Carefully assessed each student's academic strengths and weaknesses, catering to the students' specific needs.
- Developed personalized mathematics lessons for over 30 students, aligning with their learning styles and goals.

Associated Student Body

August 2019 - Jan 2022

Positions: Student Body Executive President, Supreme Court Chief (head), Class Vice President

- Coordinated with student leaders to plan 100+ events including canned food drives, spirit events, and fundraisers.
- Facilitated conversation between students, faculty, and admin to address concerns and advocate for student needs.