

# Eric Zhou

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## EDUCATION

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**University of California, Los Angeles (UCLA)** September 2021 – June 2025 (expected)

*Bachelor of Science in Computer Science, GPA: 3.95/4.00* Los Angeles, CA

- Relevant Coursework: Data Structures and Algorithms, Software Construction, Computer Organization, Digital Design, Computer Architecture, Operating Systems, Machine Learning, Networks
- Awards and Societies: Upsilon Pi Epsilon (top 1/3 of UCLA CS majors), Dean's Honor List, Climbing Team

## WORK EXPERIENCE

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**Software Engineering Intern**

February 2021 – September 2023

*Scripps Research*

*La Jolla, CA*

- Reengineered result ranking system, boosting Mean Reciprocal Rank by 1.6x-5x across various benchmarks
- Transformed monolithic Docker build process into modular Docker Compose configuration, improving deployment flexibility and streamlining workflows
- Created an intuitive visual query builder that allows users to easily query our API and interpret results
- Collaborated with Biothings team to implement new features and troubleshoot existing bugs in our backend API
- Ensured quality and functionality of our codebase by writing comprehensive unit and integration tests
- Publication: <https://arxiv.org/abs/2304.09344>

## PROJECTS

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**React Google Calendar** | [github.com/ericz1803/react-google-calendar](https://github.com/ericz1803/react-google-calendar)

React, Typescript, Git, Google APIs

- Developed and deployed an open-source React component that utilizes the Google Calendar API to create a highly customizable and modern calendar design
- Addressed community feedback by resolving issues and incorporated contributions from developers worldwide
- Improved code maintainability and usability by migrating from JavaScript to TypeScript
- Achieved 120+ stars on Github and 20000+ downloads on NPM

**Congressional Trader** | <https://github.com/ericz1803/CongressionalTrader/>

Python, APIs, Amazon Web Services

- Developed a trading bot that leverages congressional trading data to make informed trading decisions, aiming to capitalize on potential market movements influenced by legislative actions
- Automated the extraction of congressional trading data from capitoltrades.com using their API
- Designed a dynamic trading strategy that adjusts based on the frequency, volume, and type of congressional trades
- Automated trading and weekly portfolio rebalancing using AWS Lambda and Alpaca Trading's API

**FratRank** | [fratrank-1278b.firebaseio.com/](https://fratrank-1278b.firebaseio.com/)

React, Node.js, Javascript, Git, Google Cloud Platform, Firebase, Instagram

- Led team in building full-stack app that allows users to anonymously review and compare fraternities at UCLA
- Successfully scraped Instagram to gather information about the fraternities
- Utilized Google Cloud APIs for the backend database functionality and website hosting

**Spotify Recommendations** | <https://github.com/ericz1803/spotify-recommendations>

Python, Pandas, Machine Learning, Big Data

- Developed a recommendation system to suggest songs based on users' playlists
- Performed data extraction, cleaning, and transformation on more than 7 million songs using Pandas
- Used the recommendations to find music that matched my playlists and preferences, enhancing music discovery

## SKILLS AND INTERESTS

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**Languages:** Javascript, Typescript, Python, C++, HTML/CSS, SQL, Verilog

**Frameworks:** React, Node.js, Flask, Jest, Material UI, Vue.js

**Developer Tools:** Git, Bash, Linux, Docker, CI/CD, Google Cloud Platform, VS Code, Amazon Web Services (AWS)

**Libraries:** NumPy, Pandas, Matplotlib, Tensorflow, PyTorch

**Hobbies:** Rock climbing, Basketball