Eric Zhou

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EDUCATION

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, Computer Networks, Data Management Systems, Web Applications
- Awards and Societies: Upsilon Pi Epsilon, Dean's Honor List, Climbing Team, Bruin Sports Analytics, AATP

WORK EXPERIENCE

Software Engineering Intern May 2024 – Present
Hypertherm *Remote*
- Developed and maintained ProNest Server by refactoring codebase, building out REST and GraphQL APIs, and reviewing code
- Acquired proficiency in C#, .NET, and Angular to contribute effectively to an existing large-scale project
- Collaborated with colleagues in an Agile environment to write clean code and implement optimal solutions

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

React Google Calendar | *github.com/ericz1803/react-google-calendar*

React, Typescript, Git, Google APIs
- Developed and deployed an open-source React component using the Google Calendar API, achieving 175+ GitHub stars and 30,000+ NPM downloads.
- Addressed community feedback by resolving issues and incorporated contributions from developers worldwide
- Improved code maintainability and usability by migrating from JavaScript to TypeScript

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

Python, APIs, Amazon Web Services
- Built a trading bot that uses congressional trading data to capitalize on legislative market movements
- 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.firebaseapp.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

SKILLS AND INTERESTS

Languages: Javascript, Typescript, Python, C#, Swift, SQL, HTML/CSS, C++
Frameworks: React, Angular, Vue.js, Node.js, Flask, Jest, Material UI
Developer Tools: Git, Bash, Linux, Docker, Figma, CI/CD, Google Cloud Platform, VS Code, Amazon Web Services (AWS), Jira, Agile
Libraries: NumPy, Pandas, Matplotlib, Tensorflow, PyTorch
Hobbies: Rock climbing, Basketball