

BRENDON ZIMMER

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EDUCATION

University of Southern California Los Angeles, CA
Bachelor of Science in Computer Science May 2025

- **GPA:** 3.92 / 4.0
- **Honors:** Dean's List Fall 2021 - Present, Alpha Lambda Delta Honor Society
- **Relevant Coursework:** Principles of Software Development, Software Engineering, Data Structures and Object Oriented Design, Accelerated Programming in Python, Introduction to Distributed Systems, Introduction to Algorithms and Theory of Computing

EXPERIENCE

Software Engineer Intern Los Angeles, CA
Crabel Capital Management May 2023-August 2023

- Designed & developed modular Python library with OOP to intelligently build & run Docker containers
- Presented library to 70 staff and executives, resulting in increased developer efficiency
- Upgraded legacy code in agile environment, improving performance in large-scale C++ codebase

Software Engineer Intern Malibu, CA
J&P Ltd. May 2022-August 2022

- Accelerated document uploading utilizing Python & Playwright, expediting transition to digital by over 5x
- Implemented automated reminder system for monthly rent dues, aiding efficient management of tenants

Web Developer Los Angeles, CA
METRANS TSA January 2022-August 2022

- Enhanced website functionality and aesthetics utilizing JavaScript, HTML, and CSS
- Engaged in weekly site improvement discussions, advocating for better mobile version, leading to improved UX

LEADERSHIP & INVOLVEMENT

Founder & President | *ofCourse* August 2023-Present

- Manage a team of 12 to make MVP while addressing inefficiencies in USC's course platform
- Coordinate efforts to receive funding and API access by meeting with student government & IT Services
- Simplify access to essential resources and course information by attending to students' current complaints

Director of Recruitment & Engineer | *TroyLabs* January 2023-Present

- Manage whole recruitment cycle, from organizing applicant events to leading 5 group interviews
- Conduct weekly meetings for new members, ensuring easy integration and knowledge of initiatives

Risk Management Chair | *Phi Delta Theta - California Delta* September 2022-May 2023

- Implemented preventative safety measures and acquired NARCAN certification, resulting in 0 incidents
- Led a team of 20 to plan safety logistics for all fraternity events, prioritizing attendee well-being

PROJECTS

USC Course Notifier | Node.js, TypeScript, Google Cloud Platform, Twilio, Postgres

- Addressed challenge students face in enrolling for high-demand USC courses by developing a real-time seat availability notifier
- Built Node.js CLI to monitor course sections for seat fluctuations with Twilio notifications, 30x faster than competition
- Realized sub-2-second notifications & saved 20x memory by transitioning from web scraping to endpoint requests

Paxos-based Sharded RSM Key-Value Service | Golang, Paxos, Sharding, Distributed Systems

- Built multi-Paxos consensus protocol to facilitate distributed decision-making in sharded network
- Designed resilient, type-agnostic Paxos Replicated State Machine library, ensuring consistent replication & application of log

Playlist Transfer Service | React, Next.js, Spotify API, Apple Music API, Tailwind CSS

- Integrated Spotify & Apple Music APIs with a React & Next.js site to transfer playlists cross-platform
- Optimized song-matching by leveraging ISRC codes, allowing for custom album cover selection

SKILLS

Languages: TypeScript, JavaScript, C++, Python, Java, Rust, Go, SQL, x86-64, ARM-64

Web Development: Node.js, React, Next.js, Tailwind CSS, HTML, CSS, Prisma, T3 Stack

Tools & Platforms: Agile, Git, Unix Terminal, RESTful APIs, MySQL, PostgreSQL, Planetscale, Docker