Zaíd Ruíz

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EDUCATION

California Polytechnic State University, San Luis Obispo, CA   Sep 2022 – June 2026

*B.S. Computer Science - **3.82 GPA***
- **Related Coursework:** Data Structures and Algorithms, OOP, Systems Programming, Data Science, Web Development

TECHNICAL EXPERIENCE

Cal Poly Prototype Vehicles Laboratory, San Luis Obispo, CA   Oct 2022 – June 2024

Lead UI Dashboard Developer: Java, Android Studio, C
- Spearheaded the design and development of the UI dashboard for Project Mila, an electric vehicle targeting a world record of 1000+ miles on a single charge, enhancing driver experience and vehicle control.
- Integrated real-time motor control and vitals monitoring features, enhancing driver safety and accelerating development time by 20% through cross-functional collaboration using Java and Android Studio.

ServiceNow, Santa Monica, CA (*Remote*)   Jun 2021 – Aug 2021

Internship: Java, ServiceNow Developer Tools & Framework
- Utilized ServiceNow's developer tools and frameworks to construct efficient digital workflows for large clients such as 7-Eleven and Deloitte.
- Designed an award-winning digital workflow during the 12-week program, securing first place in the inaugural ServiceNow Scholars Hackathon.

LEADERSHIP EXPERIENCE

Associated Student Body | *Secretary*   Mar 2021 – Mar 2022
- Coordinated and organized major school events, including Prom, Homecoming, Spirit Weeks, and school competitions, boosting student engagement.
- Negotiated partnerships with local businesses to secure sponsorships and resources for school and community events.
- Managed and documented sensitive financial transactions for club and sports activities, ensuring accountability in weekly meetings.

FIRST Robotics | *Assembly Crew Co-Lead*   Aug 2020 – May 2022
- Led a team of 20+ students in designing and constructing a semi-autonomous robot capable of executing precision tasks, such as shooting balls and climbing bars, utilizing CAD software and industrial machinery.
- Revamped the team's on-site repair workflow by developing a more mobile and tool-efficient workbench, improving maintenance efficiency during competitions.

PERSONAL PROJECTS

Inner Bloom | JavaScript, ChartJS, MongoDB
- Developed secure API endpoints using middleware to validate user identity through token authentication, fortifying HIPAA compliance by encrypting user logs.
- Engineered interactive sleep pattern visualizations using Chart.js, empowering users to assess and track sleep trends over time.

Discord in UNIX | C, Unix IO, TCP, Makefile
- Built a text-based chat application enabling real-time communication between users through the terminal.
- Programmed a client-server architecture where a designated server manages incoming messages, and clients initiate connections for seamless data exchange.

MUSH | C, UNIX/LINUX, Pipelining, Multi-Processing, Signal Handling
- Designed a custom Linux shell (*Minimally Useful Shell – MUSH*) to emulate core interactive shell functionalities.
- Implemented file redirection, devised multi-processing capabilities for pipeline commands, and integrated SIGINT handling for enhanced user experience.

SKILLS & ADDITIONAL INFORMATION

Programming: Python (SciKit Learn, Pandas, NumPy), C, R, MySQL, JavaScript, Java

Tools: MongoDB, React, Express, Git, Android Studio

Awards: Class of 2022 Salutatorian, ServiceNow Hackathon Winner, Cal Poly Dean's List, California Boys' State Delegate