

ELI

SOFTWARE ENGINEER

San Diego | eliperez0024@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

SUMMARY

A driven Computer Science student with proven experience developing high-performance, full-stack web applications in rust. Eager to apply a deep understanding of systems programming and a passion for building impactful software.

EDUCATION

Southwestern Community College | Chula Vista, CA

Associates of Science in Computer Science | Expected May 2026

- Data Structures & Algorithms, Object-Oriented Programming, Computer Architecture, Discrete Mathematics

SKILLS

- **Back-End & Cloud:** Rust (Axum, Shuttle-rs), Python, PostgreSQL, NodeJS
- **Front-End:** JavaScript, TypeScript, React, HTML/CSS, Leaflet.js,
- **Developer Tools & Platforms:** Docker, Git, GitHub, AWS (Familiarity), CI/CD (Netlify, Shuttle-rs)

PROJECTS

Until Every Cage is Empty (Open-Source Mapping Application) [Live Demo](#) | [GitHub Repo](#)

- Engineered a high-performance RESTful API in Rust using the Axum framework to serve over 30,000 data points to a global user base of activists and researchers.
- Developed a dynamic front-end with Vanilla JavaScript and Leaflet.js to create an interactive map visualization, receiving contributions from the open-source community.
- Implemented Python scripts for data cleaning, processing, and standardization to ensure data integrity.

Electron CPU (8-Bit Computer, Assembler, and Emulator) | [GitHub Repo](#)

- Designed and built a custom 8-bit CPU from the ground up using logic gates in an electronics simulator, complete with a custom instruction set and custom architecture.
- Developed a corresponding assembler and emulator in Rust, to convert custom assembly language into machine code, demonstrating a deep understanding of low-level systems programming.
- Created a VS Code extension for syntax highlighting to improve the development workflow for the custom assembly language.

PROFESSIONAL EXPERIENCE

Computer Repair Technician, Elite Computers

Aug 2024 - Present

- Systematically diagnosed and resolved complex hardware and software issues for a diverse client base, applying logical troubleshooting methodologies to identify root causes.
- Communicated technical solutions effectively to non-technical clients.

Detailing Professional | Bonita Mobile Detailing (Founder) [Website](#) | [Google](#) Sep 2024 - Aug 2025

- Launched and operated a self-started service business, managing the entire client lifecycle from marketing, initial consultation and quoting, to final service delivery.
- Applied meticulous attention to detail during multi-step processes to ensure a flawless, high-quality result for every client.

AWARDS & ACHIEVEMENTS

- AP Computer Science Exam: Passed with highest possible score (5) - Self Studied
- Sweetwater District Honors Band: Selected for a highly competitive, audition-only ensemble for six consecutive years; earned the title of First Chair Trumpet for two years, leading a section of 15+ musicians.