

Eli Perez

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Projects

Until Every Cage is Empty | Axum (Rust), Python, JavaScript Live Website | GitHub

- Led development of a first of its kind, global mapping project for animal rights, reaching **3,000** monthly users.
- Engineered a high-performance RESTful API in Rust, to serve over **38,500** documented facilities to journalists, activists and researchers
- Standardized data from dozens of public sources using Python into lightweight, flat-file data stores, and visualized using Leaflet JS
- Managed open-source development, merging contributions and collaborating with a global team of developers
- Received **\$1,000** seed grant from the Pollination Project as well as crowd-sourced donations
- Drove project adoption by creating a related YouTube channel and Instagram, achieving over **100k** views and fostering a community of users and activists.
- Recognized by major animal rights organizations like PETA and CAFT, and featured in animal rights newsletters

Electron Redstone CPU | Rust, Custom Assembly Language GitHub

- Designed and built an entirely custom 8-bit CPU from logic gates in Minecraft, demonstrating a fundamental understanding of computer architecture and low-level systems
- Complete with an assembler and emulator built in Rust, example programs, and a VS Code extension for syntax highlighting
- Entirely custom ISA, turing complete, inspired by RISC-V standards

Experience

Computer Repair Technician | Elite Computers – San Diego, CA Aug 2024 – Sep 2025

- Systematically diagnosed and resolved complex hardware and software issues for a diverse client base
- Ensured high customer satisfaction by translating complex technical issues into understandable solutions

Detailing Professional (Founder) | Bonita Mobile Detailing – Bonita, CA Sep 2024 – Aug 2025

- Launched and operated a detailing service business serving hundreds of clients
- Independently managed all business operations, including marketing, client scheduling, and financial tracking for hundreds of clients, receiving dozens of 5 star reviews on Google

Education

Southwestern College | AS for Transfer, Computer Science & Mathematics Expected May 2026

- **Coursework:** Computer Architecture, Data Structures & Algorithms, Object-Oriented Programming

Skills

- **Programming Languages:** Rust, Python, JavaScript
- **Technologies:** Axum (Rust), Pandas, Selenium, Leaflet.js
- **Systems Programming:** Computer Architecture, Low-Level Systems, Assembler/Emulator Design

Achievements & Interests

- Scored a 5 on the AP Computer Science A exam (self-studied) and passed 5 total AP exams in senior year.
- Founded and led a school Jazz Band as lead trumpet; recognized as 'Most Outstanding Musician'.
- Volunteered for three years as a Music Tutor, mentoring middle school students through one-on-one and group sessions