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
- Managed open-source development, collaborating with a global team of developers, securing a **$1,000** seed grant from the Pollination Project and crowd-funded donations from around the world
- Standardized data from dozens of public sources using Python into lightweight, flat-file data stores, and visualized using Leaflet JS
- Drove project adoption through social media outreach, achieving over 100k views and gaining recognition from major organizations like PETA and CAFT, and 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

The AI Roundtable | Cloudflare (Workers, AI, & Pages), Typescript   Live Website | GitHub

- Designed a responsive frontend on Cloudflare Pages that allows users to generate podcasts from custom topics, articles, or integrated news headlines, complete with multiple podcast style options
- Engineered a serverless AI podcast engine on the Cloudflare platform, using Workers AI to generate dynamic, two-host scripts and a TTS API to produce distinct dual-voice audio

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, ensuring high customer satisfaction by translating technical issues into understandable solutions.

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

- Launched and operated a mobile detailing service, independently managing all business operations including marketing, scheduling, and finances for hundreds of clients, resulting in dozens of 5-star Google reviews.

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, TypeScript
- **Technologies:** Axum, Cloudflare, Pandas, Selenium, Leaflet.js

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