

EDWARD T. LOPEZ

Full-Stack Software Engineer

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MISSION

Fullstack Engineer with a background in music and a drive for clean, purposeful engineering. Specializes in production-grade web apps, backend APIs, automation pipelines, and security tooling — with a bias toward systems that are logic-first and built to last.

EXPERIENCE

Muze — Full-Stack Idea Capture App | Next.js · Tailwind · Clerk · Vercel

- Designed and shipped a full-stack app end-to-end, from authentication to production deployment on Vercel
- Implemented Clerk auth with protected routing and session management
- Built a responsive, high-speed UI focused on capturing ideas before they disappear

Kubernetesified URL Shortener | Python (FastAPI) · Kubernetes · Docker · Redis · MongoDB · Cryptography

- Architected a microservice stack with FastAPI, Kubernetes orchestration, and Dockerized services
- Built a cryptographic token generation system with Redis caching for sub-millisecond URL redirection
- Configured Kubernetes Ingress, pod deployments, and service routing for scalable traffic handling
- Validated all request/response schemas end-to-end using Pydantic and Python-Multipart

Data Sanitized Sales Dashboard | Python · Streamlit · Pandas · Regex

- Built a local data pipeline that ingests raw Excel/CSV files, strips PII, and renders a live dashboard
 - Used Regex and Pandas to detect and redact sensitive fields before any data reaches the display layer
 - Deployed as a Streamlit app — zero server setup, runs fully offline for data-sensitive environments
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TECH STACK:

Languages & Frameworks: Python, JavaScript, Node.js, React, Next.js, FastAPI, Express

Infrastructure & DevOps: Docker, Kubernetes, Redis, MongoDB, Vercel

Automation & Scripting: AppleScript, Subprocess, Shutil, Pathlib, OS Library

Data & Scraping: Pandas, BeautifulSoup4, Requests, Regex, Streamlit, Exiftool

Tooling: Postman, Dotenv, Pydantic, Tailwind CSS, Clerk Auth, Git