

Xander M. Lopez

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Professional Summary

Federal IT specialist and founder of Zendren LLC. Own AI-enabled software projects at the U.S. Department of the Treasury, working with customers, engineers, and program offices from requirements through ongoing operation. Lead product strategy, architecture, and AI-assisted engineering at Zendren, including release planning, application security, and agent governance.

Professional Experience

IT Specialist (Artificial Intelligence), GS-2210-14

U.S. Department of the Treasury, Departmental Offices | June 2026 – Present

Office of the CIO / Treasury Common Services Center

- Own delivery of internal and external-facing AI-enabled applications, from identifying business needs and designing software through implementation, deployment, and ongoing operation.
- Work directly with customers, senior executives, engineers, and program offices to map workflows, clarify requirements, and establish development priorities.
- Coordinate technical work across small teams and larger cross-functional efforts; evaluate architecture and implementation choices through engineering reviews.
- Develop and review full-stack applications using OpenAI Codex, VS Code, Git, and pull requests. Combine AI-assisted implementation with automated testing, code review, and security review.
- Configure infrastructure, deploy containerized applications, and operate cloud services using Terraform, Docker, and AWS.
- Demonstrate working applications, document technical decisions and operating requirements, and incorporate stakeholder feedback into continued development.

Founder & Technical Lead

Zendren LLC | September 2025 – Present

- Direct product strategy and technical development across a software portfolio. Set priorities, define requirements, plan releases, and manage dependencies across application, AI, and platform work.
- Design application architecture, APIs, and data flows for web applications and automation. Integrate language and vision models with application logic, data storage, and user-review controls.
- Evaluate model providers, integration approaches, and development tools against capability, cost, reliability, and security requirements. Use prototypes and failure-case tests to inform technical decisions.
- Direct AI-assisted engineering in Python and TypeScript across coding and agent platforms. Coordinate delegated work, review proposed changes, and maintain version control and technical documentation.
- Define what agents may read, change, and execute. Scope credentials, establish human-approval boundaries, and keep audit logs for review and recovery.
- Implement application-security controls, including server-side request forgery protection, redirect and private-network checks, prompt-injection defenses, rate limiting, and timing-safe credential comparisons.
- Build parameterized Vitest and pytest suites for application behavior, document parsing, financial calculations, and API failures. Use synthetic inputs to exercise edge cases and security defenses before release.

Recreation Assistant; previously Recreation Aide

City of Los Angeles, Department of Recreation & Parks | May 2022 – Present

- Promoted in January 2024. Coordinate planning, staffing, logistics, and day-of operations for seasonal events serving 500–800 attendees.
- Troubleshoot AV equipment, registration systems, and staff devices; train coworkers on digital tools and create program signage and flyers. Support registration and participant communication for hundreds of families weekly.

Founder & Manager

Imperion Property Management LLC | April 2025 – August 2025

- Founded and operated a short-term rental management business, establishing business accounts, vendor workflows, administrative processes, and client outreach.
- Recruited and managed two contract staff. Coordinated schedules and service delivery, handled sales conversations, negotiated service contracts, and resolved client issues.

Independent Developer — AI & Software Projects

Self-directed | August 2020 – March 2025

- Built a campus-policy chatbot with open-source language models and vectorized UC San Diego Associated Students documents; self-hosted a website and Instagram pilot serving staff and students.
- Developed GPT-based financial-analysis tools, self-hosted Stable Diffusion infrastructure, and early agent prototypes.
- Designed and administered a survey of 349 high school students on AI familiarity and career concerns; analyzed quantitative and qualitative responses and presented recommendations for AI education.

Projects

Imperion — AI agent infrastructure: Built Zendren's internal platform for multi-step tasks and scheduled workflows, integrating persistent memory, model routing, and MCP tools across Hermes Agent, OpenAI Codex, Claude Code, and supporting services.

Splitful — Receipt scanning and expense splitting: Built and released a web application that extracts receipt line items with OCR and vision-language models, supports editable item assignments, and calculates per-person totals with tax, tip, and fees.

Label Verify — AI-assisted document review: Developed a vision-model prototype to compare beverage labels with application data and check regulated fields and Government Warning requirements. Includes batch processing, model comparisons, provider fallback, and confidence-based referral to human review.

Technical Skills

Languages: Python, TypeScript, JavaScript, C++, HTML/CSS.

Frameworks & Cloud: React, Node.js, REST APIs, Capacitor, Firebase, AWS, Terraform, Docker.

AI: LLM integration, OCR, vision-language models, retrieval-augmented generation, vector databases, agent orchestration, MCP, prompt engineering.

Engineering: Git, CI/CD, Vitest, pytest, API testing, security review, technical documentation.

Design: UI/UX, Photoshop.

Education

University of California, Los Angeles — Cognitive Science | Beginning Fall 2026.

Los Angeles Pierce College | September 2024 – June 2026

Computer science and general-education coursework; LACCD cumulative GPA: 3.71.

Dean's Honor List; President's Honors.