

# Aldo Perez

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## Skills

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**Languages:** Python, TypeScript, JavaScript, Java, Bash, Groovy, SQL, HTML/CSS; fluent in English & Spanish

**Frameworks:** Next.js, React, FastAPI, Flask, Django, LangChain, LangGraph, Pydantic, Pandas, Dash, Plotly, Playwright

**Tools:** AWS Bedrock, Docker, Jenkins, Git, Artifactory, Jira/Confluence, Flexera, Klocwork, MongoDB, ChromaDB, SQLite

## Experience

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**Software Engineer**, Marvell Technology – San Jose, CA

June 2023 – Present

*Software Engineer Intern* → *Co-Op* → *Software Engineer*

- Designed and built an AI compliance agent (AWS Bedrock, LangChain, LangGraph) automating legal audits across **200+ repos**, eliminating **~30–50 hrs/month** of manual review and auto-filing Jira tickets to developers
- Built a full-stack compliance dashboard (Next.js, MongoDB, Python) for real-time scans, CVE tracking, and AI-driven customer string filtering to prevent data leaks in cross-customer releases
- Delivered zero-day PSIRT security fixes: built and shipped Git patches with integration guides, cutting customer patch-application time by **~50%**
- Executed Flexera Code Insight audits on firmware stacks (**> 1M LOC**); produced GPG-signed SBOMs (SPDX, CycloneDX) and legal reports accepted by **Fortune-100 OEMs**
- Led release coordination for Structera CXL across global teams (India, US, Spain), merging changes from 30+ devs and delivering 3 builds/month
- Built Dash/Plotly analytics portal for 3 product lines, visualizing SAST trends, test-suite results, and doc metrics for 50+ engineers; cut doc errors by **95%** via NLP spell-check pipeline with AI false-positive filtering that auto-learns product terminology
- Automated scanning/removal of customer-identifying strings across 100% of outbound source drops, eliminating data leakage incidents
- Owned Velox SDK releases: managed release tagging, Sphinx documentation, and monthly artifact delivery via AEM to key customers
- Debugged 20+ Jenkins pipelines, reducing failed builds by **~15%** and build time by **~20%**; led Gerrit-to-GitHub migration for hundreds of repos

**IT Systems Engineer**, Ops On Demand – San Jose, CA

Mar 2021 – Jun 2023

- Launched zero-touch Mac provisioning via Apple Business Manager + Google SSO + Addigy, cutting laptop setup from **~2 hrs** to **<30 min** (**4× faster**) and slashing help-desk tickets
- Packaged 10+ apps via Addigy MDM, building a self-service catalog for 300+ users with one-click installs, reducing manual installs by **~90%**
- Engineered SOC 2-compliant policies (disk encryption, CIS benchmarks, password rotation) bringing **100%** of devices into audit readiness

## Projects

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**SiteScribe**

[github.com/ALPECS/SiteScribe](https://github.com/ALPECS/SiteScribe)

- Built a full-stack RAG app (Next.js 15, FastAPI, ChromaDB, Gemini, LangChain/LangGraph) with dual-mode scraping (local + Spider API for anti-bot bypass), RAG Fusion retrieval, and Tavily web search fallback with inline source citations
- Parallelized scraping and embedding pipelines, cutting knowledge base build time from **~3 min** to **~1 min** (**67% reduction**); multi-tenant isolation via Google OAuth with per-user dataset segregation

**LinkedIn Parallel Navigator**

- Built an automated LinkedIn scraper (Playwright, Python) with AI-powered captcha bypass via Gemini vision, using parallel LLM requests with a voting/consensus system to solve tile-selection challenges automatically
- Implemented concurrent browser tab processing for parallel scraping with rate limiting protection, deduplicating and exporting profile URLs organized by company and query

## Education

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**Georgia Institute of Technology** – MS in Computer Science (Artificial Intelligence)

Expected Spring 2028

**San José State University** – BS in Software Engineering (GPA: 3.8)

2025