

# Aldo Perez

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## Skills

**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

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

June 2023 – Present

*Software Engineer Intern → Co-Op → Software / Release 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 structured Jira tickets from findings
- Built a compliance dashboard (Next.js, MongoDB, Python) used across **200+ components**; the legal agent reports scan stats and status (CVE tracking, string checks, legal compliance)
- Built a parallel firmware CVE scan framework: clone components, Claude scan, Excel report, and Jira tickets to developers
- Designed and owned HSM firmware signing and provisioning for Structera CXL; built scripts generating production-signed builds across 4 DDR4 and DDR5 variants and delivered **first-time production-signed** customer firmware
- 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 Structera CXL releases as the liaison across QA (India), DevOps (Spain), developers (US and India), and US customers: 3 builds/month
- Built Dash/Plotly analytics for 3 product lines (SAST, tests, docs) for 50+ engineers; cut doc errors **95%** with NLP spell-check and AI false-positive filtering
- Owned Velox SDK releases (tagging, Sphinx, AEM) and extended Jenkins CI/CD for QA; 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

**SiteScribe**

github.com/ALPECS/SiteScribe

- App that turns any website into a Q&A chatbot with source citations (Next.js, FastAPI, Gemini); searches the web when the site is not enough; builds a knowledge base **67%** faster by using parallelization

**LinkedIn Web Scraper**

- Automates LinkedIn search and connection requests for chosen companies and keywords (Playwright); uses an AI API or a free local model to solve captchas so it can keep running at \$0

## Education

**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