

Jonathan Carpio Arellano

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EDUCATION

San José State University

B.S. in Software Engineering. GPA: 3.61

Sep. 2025 – Dec. 2027 (Expected)

San Jose, CA

Diablo Valley College

A.S. in Computer Science. GPA: 3.95

May 2025

Pleasant Hill, CA

EXPERIENCE

San Francisco International Airport

Jun. 2026 – Present

Student Design Trainee II (Software Engineering Intern), CITO – Digital Transformation

San Francisco, CA

- Design the ingestion pipeline for SFO Cybersecurity's vulnerability program: scheduled PowerShell jobs pull CrowdStrike Falcon API data with atomic file replacement and failure alerting to protect downstream reports.
- Design a star-schema Power BI model unifying CrowdStrike Falcon Spotlight, Active Directory, KACE patch management, and the CISA Known Exploited Vulnerabilities catalog, replacing a manual Excel process.
- Develop a multi-page Power BI report the Cybersecurity team uses to plan daily patching; SQL over KACE patch tables flags which CVEs have a deployable patch and which need manual remediation.
- Reconcile endpoints across Active Directory, CrowdStrike, and KACE using tiered hostname matching (exact, normalized, suffix-stripped, truncated) to surface machines missing EDR or patch-management coverage.
- Extend vulnerability reporting to servers, starting with a risk dashboard that tiers 120 in-scope servers by CPU, memory, storage, and OS support status and flags the 26 critical hosts to fix first.
- Define SFO's first API-access process after flagging that the vendor's setup script stored credentials in plaintext, proposing a secrets vault and dedicated service account as the reusable standard.
- Co-author handoff documentation and present a lessons-learned retrospective to IT leadership.

San Francisco International Airport

Jul. 2025 – Oct. 2025

Student Design Trainee, Strategic Initiatives

San Francisco, CA

- Ran discovery sessions with cross-functional stakeholders across airport operations to map existing processes and document requirements, identifying automation opportunities aligned with SFO's digital transformation strategy.
- Built an Excel knowledge base cataloging SFO's TSA-mandated systems, owners, dependencies, and criticality to prioritize modernization work; invited back the next summer for an expanded engineering role.

San Mateo County Transit District (SamTrans)

Sep. 2023 – Mar. 2024

Application Development Intern

San Carlos, CA

- Led 4 interns migrating 1,000+ users' files to OneDrive, validating permissions and training staff.
- Configured SharePoint Online sites and Lists and automated migration status tracking with Power Automate.

PROJECTS

Self-Hosted AI Lab – Multi-Agent Dev Team | *Python, FastAPI, vLLM, Docker, Linux* Sep. 2026 – Present

- Build a self-hosted AI software-engineering team on an ASUS Ascent GX10 (NVIDIA GB10) serving Qwen3.8-27B locally, so agents plan, code, test, and review without sending code to third-party APIs.
- Implement a spec-driven agent loop (requirements → design → code → tests → review) with each agent in an isolated git worktree; changes merge only after pytest passes and a human approves.
- Design agent sandboxing with NVIDIA NemoClaw/OpenShell, keeping secrets and network access locked down.

Motiff – Cross-Platform Mobile App | *TypeScript, React Native, Expo, Supabase* | [GitHub](#)

In Progress

- Build an iOS/Android app with React Native and Expo in a pnpm monorepo, with custom Expo config plugins for native iOS builds and an Android release pipeline on EAS Build.
- Integrate Supabase auth and Postgres, AI edge functions, PostHog analytics, and Sentry crash reporting.

TECHNICAL SKILLS

Languages: Python, TypeScript/JavaScript, Java, SQL, PowerShell, C++, HTML/CSS **Spoken:** English, Spanish

AI & ML: PyTorch, Hugging Face, vLLM, Ollama, RAG (pgvector), agent orchestration (Claude Code, OpenClaw)

Frameworks: React, React Native, Expo, Node.js, Next.js, FastAPI

Data & Platforms: Power BI/DAX, SQL Server, PostgreSQL, SharePoint, Power Automate, Power Apps

Developer Tools: Git, Docker, Linux, npm/pnpm, Jira, VS Code, PyCharm, Cursor, Codex