

# FABRIZIO CORRALES

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## ABOUT ME

Backend focused software engineer building scalable distributed systems, developer tooling, and experimentation friendly platform capabilities. Experienced in Go services, performance analysis, CI feedback acceleration, and operational analytics. Passionate about fitness technology and building systems that drive measurable user engagement.

## SKILLS

**Web + APIs:** TypeScript, Node.js, REST, WebSocket/HTTP, React, JWT

**Backend:** Go, Python

**Distributed Systems + Protocols:** gRPC, Protobuf, mTLS/X.509, Vault

**Data + Databases:** Postgres/SQL, Supabase, DuckDB, BigQuery

**Observability:** Grafana, metrics, structured logging, latency and error analysis

**Cloud + Infra + CI/CD:** Kubernetes, Docker, GCP, Azure, CI signal, release gating, automation

**AI + Automation:** Agentic workflows (MCP), LLM-assisted code review, PyTorch (embeddings/similarity),

OpenCV/MediaPipe, data collection/scraping

## EXPERIENCE

**Palo Alto Networks - Software Engineer (ADEM)**

Santa Clara, CA | Aug 2024 - Present

- Designed an agentic internal platform (MCP server) that orchestrates PagerDuty, Grafana, BigQuery, GitLab, Jira, and Confluence to generate actionable triage packets (context, links, ownership, next steps), speeding incident response and onboarding debugging workflows.
- Built a production Go-based distributed agent simulator and end-to-end test harness for microservices, improving pre-merge issue detection by ~20% and reducing feedback time from 4 min to 3 min.
- Designed deterministic validation pipelines and golden test datasets to reproduce ~85% of recent production incidents in CI, reducing flaky failures by ~30% and increasing release confidence.
- Replayed production-shaped traffic with randomized timing to surface p95/p99 latency regressions ~2 weeks earlier; identified ~10 performance regressions before release.
- Integrated automated validation checks into CI and release gates to provide immediate developer feedback, reducing manual QA by ~40% and preventing ~5 post-merge regressions per quarter.

## PROJECTS

**Form Factor — Fitness & Form Analysis App (React Native, Supabase, Apple HealthKit) | [GitHub](#)**

Sept 2025 – Present

- Integrated Apple HealthKit to sync Apple Watch heart-rate, step, and body-composition data into workout logs, and used ARKit body tracking to record joint/pose metrics for form analysis.
- Designed backend schemas and structured logging in Supabase/Postgres to store health and pose data reliably and support debugging and future ML features

**stitchedIT AI — Clothing Recommender & App (Next.js, React, Supabase, PyTorch) | [GitHub](#)**

Aug - Sept 2023

- Shipped a content-based recommender (embedding similarity) powering personalized rails; optimized FCP 4.0s → 0.1s to improve first-run experience and activation.
- Integrated model inference behind a clean API to drive personalized product rails in the app.

**Orwell Web Scraper | [GitHub](#)**

July 2023

- Built an async scraping pipeline resilient to blocking and churn, maintaining access on ~90% of runs and producing 26k labeled assets for downstream classification.

## LEADERSHIP

**Juntos Lead (Employee Resource Group) - Palo Alto Networks**

Santa Clara, CA | Dec 2024 - Present

- Led the organization and execution of volunteer events, ensuring successful logistics and impactful experiences for all.
- Volunteered as a cybersecurity instructor, teaching underrepresented communities essential digital safety practices and building awareness of abuse and safety basics.
- **Mentor — LEAP New Grads** : onboard coaching and mentorship

**Board Member - The Marcy Lab School**

Brooklyn, NY | Sept 2023 - Present

- Directed an \$8M 501(c)(3) nonprofit budget, optimizing resource allocation with founder collaboration.
- Secured GitHub Student Dev Pack credits for 50+ fellows, boosting project completion by 30%.

**Google Conference Scholarship, Society of Hispanic Professional Engineers Convention**

Salt Lake City, UT | Nov 2023

- Awarded a scholarship to attend the largest gathering of Hispanic students and professionals in STEM.

## EDUCATION

**Software Engineering Fellowship @ The Marcy Lab School**

Brooklyn, NY | Sept 2022 - Sept 2023

- Completed 2,000 hours of coursework in web applications development, CS fundamentals, and leadership development.

**Hunter College**

Manhattan, New York | Aug 2020 - May 2022

- **Major:** Computer Science **Relevant Coursework:** Discrete Structures, Software Analysis