

Alejandro Fiestas

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Available for a 12-week internship, May–August 2027

EDUCATION

New York University, College of Arts & Science New York, NY
B.A. in Computer Science, Intended Minor in Psychology | GPA: 3.58/4.0 | Dean's List (2024–25) Expected May 2028
Coursework: Basic Algorithms, Operating Systems, Computer Systems Organization, Data Management and Analysis, Software Engineering, Computer Security (in progress)

Newton College, Lima, Peru 2024
IB Diploma | Extended Essay: training-set size vs. CNN and KNN accuracy in brain-tumor MRI detection

EXPERIENCE

Convertidora del Pacífico, paper and corrugated packaging group (~210 employees) Lima, Peru
Programming & Systems Intern Summers 2025 & 2026

- Automated month-end production costing in C# (WPF) on SQL Server, computing product costs from production and activity data already in the ERP; cut the monthly cost close from ~3 months behind to the 15th of the following month
- Added anomaly checks for raw-material costs and thin margins against list price, uncovering manual costing errors across multiple past months that finance corrected
- Replaced email-based credit-line requests with a .NET 9 (WPF) platform used by 50+ employees: client data autofills from the ERP or Peru's tax-ID (RUC) API, documents stay in an access-controlled network folder with full history for evaluators, and SMTP notifications report status
- Developed sales CRMs for the paper and corrugated teams with pipeline stages and team analytics; closed-won deals flow into credit requests, and approved prospects are promoted into the ERP
- Migrated legacy Centura (Gupta) ERP programs to .NET 9/WPF, writing a C# parser to support AI-assisted translation
- Built a meeting-minutes and task-tracking PWA (React, TypeScript, Firebase) used by finance and planning leads; its MCP server on Cloud Run lets AI assistants propose tasks, but each must quote the transcript and get human approval
- Designed per-user database authentication for the ERP launcher under local SQL Server and legacy Gupta constraints, delivering the security plan, access logic, and initial draft
- Also shipped an auto-updater running in 3 production apps, a payment tracker projecting monthly obligations to international suppliers against a spending cap, an import tracker, a database inconsistency detector, a real-time dispatch board with GPS fleet map, and Claude Code plugins

PROJECTS

Ojo de Halcón | Public-procurement transparency platform for Peru (pre-release) May 2026 – Present
Python, DuckDB, SQL, Parquet, TypeScript, React (Next.js), Cloudflare

- Built a pipeline over 139 months of official procurement data (868K processes) joined to an 18M-row taxpayer registry; 35+ data-contract checks block publishing, including a deny-by-default personal-data check
- Designed 16 SQL risk indicators calibrated on the full dataset, correcting size and data-maturity biases; all analytics run in the browser via DuckDB-WASM over Parquet, with no application server

Qatu | Offline-first point-of-sale and inventory app for Peruvian corner stores (in development) Oct 2025 – Present
React, TypeScript, Firebase (Firestore, Cloud Functions), PWA

- Implemented barcode checkout, a weighted-average-cost inventory ledger, and daily cash reconciliation; sales save locally and sync later, so checkout never freezes when a store loses signal

Automatic License Plate Recognition | *Python, OpenCV* Mar – Oct 2021

- Trained a Haar cascade on security-camera footage to detect Peruvian license plates and log vehicles in real time

SKILLS

Languages: Python, TypeScript, JavaScript, C#, SQL
Frameworks & data: React, Next.js, .NET 9 (ASP.NET Core, WPF), DuckDB, Parquet, OpenCV
Cloud & tools: Firebase, Google Cloud Run, Cloudflare (Pages, R2, D1), SQL Server, Git, GitHub Actions
AI-assisted development: Claude Code, Model Context Protocol (MCP) | **Spoken:** Spanish (native), English (fluent)