CURRICULUM VITAE

Huascar Ignacio D Trinidad Arguello

Full-Stack Software Developer | Python, TypeScript, React & AI Applications

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Availability: full-time, remote or on-site, immediate start

01 Professional Summary

Full-stack developer with production software for clients in Nicaragua, Mexico and the United States since 2025: a restaurant point of sale, an online store with PayPal payments and a platform that brings in quote requests. I work with Python, TypeScript, React, Django, FastAPI and PostgreSQL, with a focus on reliable software and automated testing. Creator of TrinaxAI, an open-source AI assistant published on npm. Harvard CS50x and CS50W certified. English C2, Spanish native.

- **Consistently strong Lighthouse scores** in performance, accessibility and SEO, with prerendering, sitemaps and structured data (JSON-LD) validated on every build.
- **Verified accessibility**: tests at phone, tablet and desktop sizes and automated accessibility checks (WCAG).
- **Automated tests across my projects**: unit, integration and end-to-end with Pytest, Vitest and Playwright, running in CI with GitHub Actions.
- **Security from the start**: roles and row-level security, audit logs, CSRF protection, rate limiting, idempotent payments and security headers (CSP, HSTS).

02 Experience

Freelance Full-Stack Software Developer — 2025 – Present

TrinaxCode (independent) | Remote and on-site, clients in Nicaragua, Mexico and the United States

- **Belcons Remodeling** Sunrise, Florida, USA · 2025 – present — belconsremodeling.com
  - Built and maintain the company platform (Django 5, PostgreSQL, Railway); it brings in about 50 quote requests a month.
  - Quote requests by form, WhatsApp, email and click-to-call, plus a private admin panel for projects and quotes.
  - Images optimized with Cloudinary, sitemaps and SEO.
- **Comedor Doña Chola** Restaurant · 2026
  - Built, installed and supported a point-of-sale web app (React, TypeScript, Supabase) for a 12-table restaurant serving about 150 orders a day.
  - 4 waiter tablets with PIN login, a supervisor computer, and a print agent that sends kitchen and cashier tickets to 4 thermal printers over USB/LAN.
  - Row-level security on every table, waiter and supervisor roles and a full audit log.
  - Wrote the cashier guide and the role permissions guide for the staff.
- **Shine Coffee Nicaragua** E-commerce · 2026 — shine-coffee.vercel.app
  - Online store in córdobas on Vercel serverless functions (Node.js) with PayPal checkout, secure customer sessions and order tracking.
  - Role-based admin dashboard with audit logs, CSRF protection and idempotent payment confirmation.
  - Migrated the data layer from Supabase to Google Firestore, with optimistic concurrency and automated tests.
- **Neotonic** Mexico · 2026 — neotonic.mx
  Company landing page with SEO, a build script that validates structured data and metadata, and security headers.
- **CEDAS Montessori** School · 2025 — davidalfarosiqueiros.web.app
  Enrollment-focused website in React, TypeScript, Tailwind CSS and Framer Motion, prerendered for SEO and hosted on Firebase, with contact form, FAQ search and keyboard and mobile accessibility improvements.
- **Iglesia Adventista El Jobo** Chiapas, Mexico · 2025 — adventistaseljobo.web.app
  Prerendered React community website with Playwright tests at phone, tablet and desktop sizes, automated accessibility checks and Firebase Hosting.
- **Rednura** E-commerce · 2025 — rednura.web.app
  Catalog of 42 products with guided recommendations, cart, wishlist, WhatsApp ordering and structured data.

El Rincón de los Antojitos Food business · 2025
Finance dashboard (React, Firebase, charts) for a food business to track daily sales, costs, expenses, profit and accounts receivable.

03 Products & Open-Source Projects

AI · OPEN SOURCE
TrinaxAI
trinaxai.app

Private, local-first AI assistant: FastAPI backend, hybrid retrieval (RAG) with cited answers using LlamaIndex and Ollama, a sandboxed coding agent, a React/TypeScript PWA and a CLI. Published on npm (v1.4.1) with a guided installer in English and Spanish for Windows, macOS and Linux. 230+ commits, automated tests, CI and CodeQL.

ACCOUNTING · SAAS
ContaNI
conta-ni.web.app

Accounting web app for small businesses in Nicaragua (Next.js, Supabase with row-level security): journal, general ledger, VAT book, tax reports, bank reconciliation, month-end close and printable vouchers. 590+ automated tests; visitors can try it without an account in demo mode.

FINTECH · FULL-STACK
TrinaxBank
trinaxbank.vercel.app

Bilingual banking simulation in Next.js, TypeScript, Prisma, NextAuth and Zod, with idempotent transfers, extra verification for large transfers, rate limiting, and unit, integration and end-to-end tests.

COMPUTER VISION · DESKTOP
MirrorLab
mirrorlabapp.web.app

Virtual camera for Zoom, Meet, Teams and Discord built with Python, OpenCV and MediaPipe: background blur, auto-framing and a hand-gesture privacy shutter; packaged installers for Windows, macOS and Linux with CI releases.

04 Skills

LANGUAGES
Python · TypeScript · JavaScript · SQL · HTML · CSS · Bash · PowerShell

FRAMEWORKS & LIBRARIES
React · Next.js · Django · FastAPI · Node.js · Astro · Tailwind CSS · Prisma · LlamaIndex · OpenCV

DATA & CLOUD
PostgreSQL · Supabase · Firebase & Firestore · Vercel · Railway · Cloudinary · Ollama

TESTING & DEVOPS
Git · GitHub Actions · Docker · Pytest · Vitest · Playwright

ENGINEERING PRACTICES
Authentication and roles · Row-level security (RLS) · Input validation · Rate limiting · Idempotent payments · Accessibility (WCAG) · Technical SEO · Automated releases · Requirements gathering · User guides

05 Education & Certifications

HarvardX CS50W: Web Programming with Python and JavaScript
Oct 2025
Harvard University. Verified certificate.
edX: courses.edx.org/certificates/9e05af2e3b584f4bbda94476979aaaeb
CS50: cs50.harvard.edu/certificates/2be7fcdd-36c5-4a67-a651-8ea516fa8e5b

CS50x: Introduction to Computer Science
2026
Harvard University. CS50 certificate (ten problem sets and a final project).
cs50.harvard.edu/certificates/de155a22-62ee-4529-b30d-17d98cbaf165

Code in Place
Apr – May 2026
Stanford University (CS106A material in Python). Certificate of completion.
codeinplace.stanford.edu/cip6/certificate/6dufs7

HarvardX Professional Certificate in Computer Science for Web Programming
Expected Nov 2026
CS50x and CS50W.

High School Diploma (Bachillerato)
Mexico
Completed in Mexico.

06 Languages

English — C2 · Proficient
EF SET, C2 level (November 2026) · cert.efset.org/TDgHZh

Spanish — Native
Native speaker