

LUIS EDUARDO HERNÁNDEZ CRUZ

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PROFILE

Full-stack developer and IT lead. Sole author of five production systems on Next.js, strict TypeScript and PostgreSQL, with business rules enforced in the database, continuous integration and three-digit test suites. Builds for an operation he is also accountable for: the systems he writes are the ones behind the KPIs he reports.

SOFTWARE PROJECTS

- **TI Hub** — IT service desk with an SLA engine, inventory, maintenance, custody letters and monthly KPI reporting, plus a friction-free portal for any worker to file a report. Next.js 15, React 19, strict TypeScript, Supabase; 23 routes, 19 RLS policies, 160 tests, five-stage CI. In production. github.com/LittlePitza/ti-hub
- **Attendance system** — time clock for home-office staff. The server sets the timestamp; punches are append-only and corrected through auditable adjustments. Alert engine with 7 kinds on `pg_cron`, idempotent by unique key. 27 migrations, 345 SQL assertions.
- **Maintenance portal** — work orders with assignment, log, per-machine history and statistics. Multi-company scope across five sites, including customer-site service centres (BRP, Hella, Faurecia). Next.js 16, Tailwind v4, Supabase, PWA.
- **B2B marketplace** — recycled-plastics commerce with direct purchase and RFQ. Selling to invited customers since 1 September 2026, multi-vendor in production since 15 September. Next.js 16, Zod v4, Stripe/SPEI.
- **MeetScribe** — real-time meeting transcription and minutes, fully local on Windows: dual-track WASAPI capture, CPU Whisper and on-device diarisation. Python, 329 tests, MIT licence. github.com/LittlePitza/meetscribe
- **Password Vault** — local password manager for Chrome and Edge (Manifest V3). Envelope encryption with AES-256-GCM and scrypt derivation at twice the OWASP minimum; keys live only in the service worker. 216 tests.

PROFESSIONAL EXPERIENCE

Plásticos de Ingeniería Mexicanos (PIMSA)

IT Manager · Internal Systems Engineering

Huimilpan, Querétaro

June 2026 – Present

Recycled-plastics manufacturer. Sole IT lead for the TIN cost centre (~36 staff, 66 computing assets), reporting to the General Director.

- **Sole author of all five production codebases** the department runs on: help desk, attendance, maintenance portal, B2B marketplace and corporate site. All in strict TypeScript on Next.js and PostgreSQL, with CI and tests.
- **Audited the marketplace against the live database inside aborted transactions before launch** and closed a price-integrity flaw by deriving every price server-side and revoking the client write privilege.
- Designed the attendance system with **no application server**: every business rule lives in PostgreSQL SECURITY DEFINER functions across 27 migrations and 12,990 lines of SQL, punches are append-only enforced by trigger, and 345 SQL assertions run against a disposable Dockerised database in CI. The client holds no write privilege on any table.
- **Built the help-desk SLA engine** with per-priority response and resolution targets in clock hours, an 80% due-soon threshold, a clock that pauses on hold, and runtime overrides configurable from the panel rather than hardcoded.
- **Derived the monthly KPI report from immutable timestamps with no snapshot tables**, so any closed month can be reconstructed: created/responded/resolved cohorts, backlog at close, per-service availability and a 6-month trend.
- **Designed the mail layer for the Microsoft 365 basic-SMTP retirement**, supporting three send methods — basic SMTP, Microsoft Graph app-only and interactive OAuth — with credentials in the database rather than environment variables, so the method can change without a redeploy.
- **Compensated for free-tier gaps with purpose-built infrastructure**: a daily GPG AES256-encrypted dump published as a 30-day artifact with 5 verification assertions that catch a truncated or wrong-database dump, plus a daily keepalive against the inactivity pause.

Construcciones SB

Systems Administrator

Querétaro, Mexico

December 2025 – May 2026

- Administered Windows and Linux servers in production — configuration, updates and monitoring — supporting an environment of 200+ users across departments.
- Configured Fortinet security appliances: firewall policy, VPN access and network segmentation.
- Wrote Python and Bash automation that cut routine administrative task time by 50%.

Foton Querétaro

IT Specialist

Querétaro, Mexico

July 2025 – December 2025

- Administered Infor Visual ERP modules for production, logistics and service, improving traceability and reporting accuracy.

- Automated data synchronisation and report generation with Python scripts and Google API integrations.
- Built OEE and performance dashboards with Excel macros.

Centro de Abastos Fany

Information Systems Supervisor

Atacomulco, State of Mexico

January 2024 – July 2025

- Administered the internal network and main server, resolving connectivity and performance issues.
- Implemented new technology including GPS vehicle tracking, and maintained the video-surveillance system.

Mercado Libre

Logistics Specialist

Mexico (remote)

December 2019 – May 2023

- Coordinated online order logistics and courier operations across three and a half years, handling orders, returns and refunds.

EDUCATION AND CERTIFICATIONS

Universidad Autónoma del Estado de México

BEng Computer Engineering

Atacomulco, Mexico

thesis pending

- **Google Cybersecurity Certificate** — Google (in progress). Completed modules: Foundations of Cybersecurity · Play It Safe: Manage Security Risks · Connect and Protect: Networks and Network Security.
- **Google IT** — Google (in progress, 40%).
- **Git and GitHub Professional Course** and **Object-Oriented Programming** — Platzi.

TECHNICAL SKILLS AND LANGUAGES

- **Languages** TypeScript (strict) · SQL / PL/pgSQL · Python · JavaScript · Bash and PowerShell
- **Frontend** Next.js 15/16 (App Router, Server Components) · React 19 · Tailwind CSS v4 · PWA (Serwist) · SVG · technical SEO and JSON-LD · accessibility
- **Backend and data** PostgreSQL (RLS, SECURITY DEFINER, triggers, pg_cron) · Supabase · Drizzle ORM · MySQL · Deno Edge Functions · Zod
- **Architecture** Business rules in the database · append-only and auditability · layered authorization · ADRs · design for failure
- **Quality and delivery** Vitest · SQL tests on a disposable database · five-stage GitHub Actions CI · Docker · Vercel and Hostinger (Node) · repository conventions and ADRs
- **Applied security** AES-256-GCM · scrypt · OAuth 2.0 and Microsoft Graph · strict CSP · threat modelling
- **Languages** Spanish native · English advanced