

Manuel Parra

Document AI and Model Inference Engineer

Phone: +58 424 434 8349 | Email: contact@th3nolo.com

Work: Remote / UTC-4 / English and Spanish / Open to relocating for the right role

LinkedIn: [linkedin.com/in/th3nolo](https://www.linkedin.com/in/th3nolo) | Website: th3nolo.com | GitHub: github.com/th3nolo

PROFESSIONAL SUMMARY

Software engineer working on source-traceable document extraction, AI-assisted reporting, and model inference. Improved an internal audited-statement extraction evaluation from 34% to 94%. Built PDF ingestion and validation paths and served GLM-5.2-504B on eight RTX PRO 6000 Blackwell GPUs.

WORK EXPERIENCE

Technical Lead (IC)

ConTrust Suite - Construction Daily Reporting Platform · Client: Modern Building Leaders (MBL) | March 2026 - Present

- Led two to three frontend, backend, and AI engineers, including junior AI engineers, and designed a multi-repository, tenant-aware construction reporting platform spanning FastAPI services, React/Vite workflows, PDF workers, shared schemas, dashboard analytics, and AI-assisted reporting. The product is a separate line from the ConTrust risk platform, with its own payment-provider registration.
- Built ingestion and mapping flows that convert daily-report PDFs and SharePoint files into normalized reporting data. Records keep raw values, validation flags, source references, and document evidence.
- Improved extraction reliability with source-evidence contracts, idempotent workers, real-document regression tests, accuracy benchmarks, and retry and concurrency controls.
- Delivered seven workflows for source-file review, report navigation, dashboard metrics, canonical review, manpower and equipment analytics, and grounded daily briefs and questions.

Technical Lead (IC)

ConTrust · Client: Kai Arabia | Remote | January 2026 - March 2026

- Led a three-engineer build, with frontend, backend, and junior AI engineers, of a contractor prequalification, Know Your Business (KYB) verification, and financial-risk platform for Saudi construction. Translated client and product discussions into five architecture documents and more than 44 requirements covering domain rules, system boundaries, and delivery priorities.
- Improved an internal audited-statement extraction evaluation from 34% to 94%. One 22-page filing processed in 97 seconds at roughly USD 0.30 to USD 0.42.
- Built a document processing pipeline for Arabic and English KYB and financial PDFs. It combines optical character recognition (OCR), vision models, layout-aware extraction, deterministic validation, source evidence, and human review.

Systems Architect, Rust Cryptography & Consent Infrastructure (IC)

LayerD · Client: MEMob | Remote | October 2025 - December 2025

- Built the Rust cryptographic core for identity-based encryption, BLS signatures, Merkle proofs, threshold decryption, PVSS and DKG flows, and WASM and FFI exports.
- Built a consent path that encrypts records, batches commitments into Merkle roots, and anchors roots without placing plaintext consent on Hedera. Threshold nodes prevent one gateway from decrypting records or signing batch roots alone.

Backend Engineer & Systems Architect (IC)

Stackit.ai | Remote | March 2024 - October 2025

- Led a team of two to three backend and frontend engineers and owned backend and platform architecture for StackIT's onchain wealth automation product. Connected smart wallets, Aave V3 health-factor protection, Bridge.xyz and Plaid onboarding, Privy authentication, scheduled workers, admin operations, and frontend execution flows.

SKILLS

Languages: Python, TypeScript, Rust, SQL

Document AI: OCR, PDF extraction, layout-aware extraction, source provenance, deterministic validation, human review

Model inference: vLLM, multi-GPU inference, PyTorch, Transformers

Retrieval & agents: Retrieval-augmented generation (RAG), hybrid retrieval, vector search, LangGraph, MCP, evaluation datasets

EDUCATION

Bachelor's Degree in Computer Science

Universidad de Carabobo | 2015 - 2021

AWARDS

- Moralis first-place winner, Chainlink Fall Hackathon 2021. Regalis received USD 10,000.
- Moralis pooled-prize winner, Chainlink Spring 2022 Hackathon. Monkey Page Lab won part of the USD 13,500 pooled-prize category.

LANGUAGES

Spanish - Native | English - C1