

Elias Moreno

Senior Software Engineer

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PROFESSIONAL SUMMARY

I build infrastructure that sits between Solana and the products people actually use. Five years building production systems in Rust across the Solana ecosystem, from on-chain programs and smart contract tooling to full-stack API ownership and AWS infrastructure.

WORK EXPERIENCE

Squads Labs Senior Software Engineer

February 2025 – March 2026

- Built Grid, Squads' stablecoin infrastructure layer: a Rust REST API on the Smart Account Program serving Coinbase, Privy, and Crossmint. Unified TradFi primitives (payment intents, standing orders, spending limits, virtual accounts, KYC/KYB) with on-chain primitives (multi-sig proposals, passkey / P256 WebAuthn auth, session keys). Integrated Bridge for fiat rails (ACH, Wire, SEPA, SWIFT), KMS providers (Privy, Turnkey, Dynamic) with automatic failover, and Jupiter for trading.
- **Indexer:** Built a real-time on-chain indexer from scratch on Geyser/Yellowstone gRPC via Helius and Triton, replacing a legacy system that couldn't keep pace with on-chain state. Indexed four programs (Smart Account Program, SPL Token, Token-2022, Squads v4) into Postgres (Aurora) and Redis (ElastiCache), with Redis as the primary cache layer feeding the API.
- **API & CLI:** Primary owner of the Grid API across all versions (endpoints, middleware, Diesel ORM migrations, Postgres schema, Redis caching). Built an internal CLI to dogfood the API across local, staging, and prod, and made it agent-friendly so Claude Code sessions could drive it for agentic end-to-end testing and debugging.
- **Infrastructure:** One of the main owners of AWS infrastructure via Terraform: ECS/Fargate, Aurora, ElastiCache, API Gateway, Lambda, Secrets Manager, CloudWatch. Set up Datadog for tracing and monitoring. CI/CD on GitHub Actions. Local dev on Docker Compose and Tilt.
- **On-chain:** Contributed to the open-source External Signature Program: session key support with expiry enforcement, signer execution schemes, P256/WebAuthn signature verification, and security hardening including re-entrancy prevention, payload discriminators, and checked math. Helped prepare the codebase for OtterSec audit.

Elmnts CTO

February 2024 – February 2025

- Solo technical lead for a B&J incubated RWA startup. Built the full investor platform from zero: onboarding, SPV deposit infrastructure, and automated dividend distribution for accredited investors accessing oil investments.

Clockwork Founding Engineer

June 2021 – July 2023

- First engineer. Won the Solana Riptide Hackathon with Nick Garfield, then built the automation layer: 20+ on-chain primitives in Rust and TypeScript that let other Solana programs schedule and trigger work without human intervention.
- Owned ecosystem adoption. Led 15+ integrations as principal technical liaison, including Helium, who used Clockwork to automate reward distribution in real time. Built the indexing infrastructure and developer tooling that made those integrations possible.

TECHNICAL SKILLS

Languages: Rust, TypeScript, Python, SQL

Infrastructure: AWS (ECS/Fargate, Aurora, ElastiCache, Lambda, API Gateway, Secrets Manager, CloudWatch), Terraform, Redis, Postgres, Datadog, Docker, Tilt

Blockchain: Solana, Geyser/Yellowstone gRPC, SPL, Token-2022, Anchor, Smart Contracts

Specialties: On-chain Indexing, Low-Latency API Design, Distributed Systems, Stablecoin Infrastructure

EDUCATION

Texas Tech University – B.S. Computer Science, Minor in Mathematics – 3.8 GPA

August 2017 – December 2020

- Completed coursework in Algorithms, Data Structures, Programming Languages, Operating Systems, Distributed Computing, Calculus 1–3, and Linear Algebra.