

Maximiliano Perez Coto

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Senior Backend / Platform Engineer

Distributed Systems • Financial Infrastructure • Integrations & Internal Tooling

Senior backend and platform engineer with 14+ years of experience building production systems, including 4+ years designing and operating high-risk financial infrastructure. Strong background in distributed systems, event-driven architectures, external integrations, and data consistency under failure scenarios. Proven record leading engineering efforts from system design to production, audits, and live operations. Comfortable owning complex backend systems end-to-end and collaborating closely with product, ops, and security teams.

Core Expertise

Backend & Platform Engineering

- Distributed systems & event-driven architecture
- External API, webhook, and third-party integrations
- Idempotency, retries, and failure recovery
- Background jobs, reconciliation, and data pipelines
- Internal tooling and operational dashboards

Financial & Transactional Systems

- Balance tracking and settlement flows
- Risk limits and safety constraints
- Real-money transaction lifecycles
- Auditability and traceability

Smart Contracts (Specialization)

- Solidity architecture and contract design
- Vault and lending systems

- Cross-system and cross-chain integrations

Security & Reliability

- Secure system design
 - External audit collaboration and remediation
 - Architecture and threat reviews
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Tools & Technologies

Node.js, TypeScript, REST APIs, PostgreSQL, Redis, Event-driven systems, Solidity, Foundry, OpenZeppelin, AWS (EC2, S3, RDS – working knowledge), Docker, CI/CD, Slither, Tenderly

Professional Experience

Maxos — Tech Lead (Backend / Platform Engineering)

Jan 2022 – Present

Led backend and protocol engineering for multiple production financial systems handling real-money transactions under adversarial conditions. Owned system design, implementation, audits, and live operations.

Sweep — Lending System

- Designed a multi-tier lending system with deterministic settlement and strict risk constraints
- Built event-driven flows coordinating backend services with stateful execution layers
- Integrated cross-system asset movement with strong consistency guarantees
- Participated in multiple external audits, remediating issues and improving system safety

Stak — Yield Platform

- Built modular backend-driven vault architecture with configurable execution logic
- Designed semi-redeemable systems to handle partial liquidity and delayed settlement
- Owned edge cases, failure modes, and operational behavior

DagSwap — Trading Infrastructure

- Adapted core trading logic for alternative execution environments
- Worked on performance-sensitive state transitions and system correctness

Taiser — Funding Platform

- Designed structured funding flows with lifecycle state management
- Implemented allocation, closing, and reconciliation logic

Internal Tooling

- Built internal analysis tools to inspect system state and debug production issues
- Focused on operational visibility and developer safety

Daily stack: Node.js, TypeScript, Solidity, PostgreSQL, Redis, Foundry, Docker, CI/CD

Sonder — Tech Lead

2018 – 2021

Led engineering of a B2B commerce platform with secure escrow and programmable payment flows.

- Designed transaction lifecycles with conditional settlement and dispute handling
- Built backend services integrating execution logic with application state
- Owned end-to-end payment flow from initiation to completion

Stack: Node.js, React, Solidity, Elixir / Phoenix

OutboundWorks — Full Stack Engineer

2017 – 2018

- Built automation platform with hyper-personalized sequencing
- Worked across backend APIs, data flows, and frontend integration

Stack: Ruby on Rails, Node.js, React, GraphQL

Assembla — Full Stack Engineer

2012 – 2017

- Developed secure version control, ticketing, and collaboration tools
 - Worked on performance, reliability, and internal tooling
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IBM — Software Engineer

2010 – 2011

- Optimized enterprise reporting pipelines, reducing processing time by ~50%
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Security & Research

- Ongoing focus on system safety and failure-mode design
 - Contributed to audit processes and remediation
 - Built internal tooling around static analysis and system inspection
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Education

Bachelor's Degree in Computer Science

Universidad Nacional de La Matanza, Buenos Aires, Argentina