Maximiliano Perez Coto

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Senior Smart Contract & Protocol Engineer

DeFi Systems • Smart Contract Security • Backend Integrations

Software engineer with 14+ years experience and 4+ years building production DeFi systems. Specialized in Solidity architecture, vault/lending design, cross-chain systems, and protocol security. Proven record leading engineering efforts from design to deployment, audits, and live operations. Strong at shipping complex on-chain systems with clean backend integrations.

Core Expertise

Smart Contracts & DeFi

- Vault architecture
- Lending systems
- Cross-chain integrations
- AMM customization
- Protocol design & economic flows

Security

- Audit collaboration & remediation
- Static analysis (Slither)
- Contract architecture reviews
- Storage & upgrade safety patterns

Backend & Integrations

- Node.js services for on-chain systems
- Indexing & protocol data flows
- API layers for DeFi UIs
- Wallet + execution integrations

Tools
Solidity, Foundry, Hardhat, OpenZeppelin, Slither, Tenderly, NodeJS, React, TypeScript, Ethers.js

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Professional Experience

Maxos — Tech Lead (DeFi Protocol Engineering)

Jan 2022 – Present

Lead smart contract and backend engineering across multiple DeFi systems, focusing on vaults, lending architecture, and cross-chain infrastructure.

Sweep (Lending Protocol)

- Designed lending system with junior/senior tranche structure
- Integrated cross-chain asset flow using LayerZero OFT
- Participated in 2 external audits, resolving vulnerabilities and improving protocol safety

Stak (Yield Vaults)

- Built smart vault architecture for yield strategies
- Designed semi-redeemable vaults and modular vault logic

DagSwap (AMM / DEX Infrastructure)

- Implemented Uniswap v4 fork with custom liquidity hooks
- Adapted AMM logic for alternative chain architecture

Taiser (Funding Protocol)

- Built bonding curve-based funding system
- Implemented closing and allocation logic for structured deal flow

Slither-UI (Security Tooling)

- Developed interface for analyzing contract storage and layouts across chains
- Focused on developer security tooling

Daily Stack: Foundry, Solidity, Slither, NodeJS, React, TypeScript, Tenderly

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Sonder — Tech Lead (2018-2021)

Led engineering of a B2B e-commerce platform integrating Ethereum escrow contracts for secure transactions and programmable payment logic.

- Designed on-chain escrow systems
- Built backend + frontend integration layers
- Stack: Solidity, Hardhat, OpenZeppelin, NodeJS, React, Elixir/Phoenix

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OutboundWorks — Full Stack Engineer (2017-2018)

Built automation platform with hyper-personalized sequencing.

Stack: Ruby on Rails, NodeJS, React, GraphQL

Assembla — Full Stack Engineer (2012-2017)

Developed secure version control, ticketing, and collaboration tools.

IBM — Software Engineer (2010-2011)

Optimized enterprise reporting systems, reducing processing time by 50%.

Security & Research Work

- Contributed to smart contract audits and remediation processes
- Developed tooling and UI around Slither static analysis
- Ongoing focus on protocol safety patterns and DeFi security

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Education

Bachelor's Degree in Computer Science
Universidad Nacional de La Matanza (Argentina)