Gerson Loaiza Vásquez – Web3 Software Engineer – Rust, Cairo

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Professional Summary

Web3 dev focused on blockchain and cypherpunk principles. Skilled in emerging technologies like **Rust** and **Cairo,** with foundational knowledge in **Zero Knowledge Proofs**. Earned over $9K and contributed to 10+ open source projects through OnlyDust.

DojoCoding Community

Collaborated with 15+ Cairo/Rust devs weekly to build on-chain games and tooling in the Starknet ecosystem; onboarded **~40 contributors** to **OnlyDust** to make valuable open-source PRs.

Projects

Nethermind Internship – NINE project link

- Architected and implemented a **Rust-based MCP** server using **Rust** SDK for MCP.
- Integrated **Infura** through ethers-rs to power the get_latest_block too.
- Expanded the EthereumService module with on-chain retrieval functions get_block, get_transaction, get_block_transactions and get_account_balance.

Nethermind Internship – Simple Serialization Generation - Alpen Labs

- Removed 3 critical external dependencies from Ethereum serialization library by implementing custom primitives and generic hashing system.
- Built generic trait-based cryptographic hashing system supporting multiple algorithms (SHA256+), improving flexibility and performance.

Arkthemist – Arbitration as a Service project link

- Won Best AI Agent dApp on Starknet
- Developed **smart contracts** for an AI-powered arbitration platform, including an Escrow contract to securely manage payments and distribute funds to the winning party.
- Fine-tuned AI models for blockchain-integrated decision-making.
- Shared progress on X driving community engagement during the hackathon.

Open-Source Contributions – OnlyDust

- Raito project: Implemented and optimized Bitcoin network block hash functionality in **Cairo**, receiving maintainer recognition for persistence in solving complex technical challenges.
- starkiro project: Developed **smart contracts** including counter contract with access control, escrow, earning maintainer commendation for code quality.
- KakarotZKEVM project: Enhanced codebase quality through strategic refactoring, improving code readability and maintainability.
- TrustlessWork project: Implemented escrow modification functionality and error handling, contribution highlighted for code quality by project maintainers.

Education

Instituto Tecnológico de Costa Rica - Computer Engineering
January 2020 – August 2024

Ethereum Foundation PSE Core Program – Zero Knowledge Proofs repository
July 2024 - September 2024