

# Diego del Corral

Backend Blockchain Engineer

9+ years building high-performance Bitcoin & Web3 systems. Expert in UTXO, Runes, Inscriptions, DEXs, EVM integration, and scalable backend infrastructure.

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## At a Glance

- 9+ Years in Software
- 4+ Years in Blockchain
- 3+ Years in Bitcoin
- 600K+ Faucet Transactions

## Core Expertise

- **Bitcoin Systems Master:** Built Signet Faucet (<https://signet.dcorral.com>): 600K+ TXs, 65+ BTC distributed. Expert in UTXO, Runes, Inscriptions, PSBT, and fee optimization.
- **Web3 Architect:** Designed ICP canisters, DEX integrations, and high-throughput minting systems. Deep EVM experience including ERC20/721, Uniswap v2/v3/v4, DeFi protocols. Integrated with multiple DeFi protocols, handled complex transaction flows and RPC reliability. Deployed smart contracts to mainnet on EVM chains (Sei, Arbitrum, DeFiChain).
- **Scalable Backend:** Rust & TypeScript systems for fintech. Optimized for peak loads, CI/CD, and clean architecture in Web3 environments.
- **Blockchain Integrator:** Led EVM integration into Bitcoin UTXO chain (DeFiChain). Built indexers, airdrop tools, and arbitrage bots.

## Professional Experience

### Recent Experience (2021–Present)

**Backend Software Engineer, TRI0.xyz (OrdinalsBot), 2025 – Present**

- Built scalable TypeScript/Rust backend for high-demand Ordinals marketplace
- Designed AMM for DEX in ICP canister using Rust, following Uniswap V3 constant formula; explored bonding curve algorithms
- Developed ICP DEX canister with Runes minter for decentralized minting
- Enhanced Bitcoin fee estimation & UTXO selection for 10x faster mints
- Scaled infrastructure during hyped drops with zero downtime
- Led CI/CD, database, and security best practices in Web3

**Bitcoin Fullstack Developer (Contract), Ordzaar, 2024**

- Designed Runes & Inscriptions indexer from scratch
- Worked on Runes DEX development
- Maintained ord fork (<https://github.com/sadoprotocol/ord>) (Rust)
- Built Taproot PSBT transaction engine in TypeScript
- Automated Runes airdrop using bitcoinjs-lib
- Deployed public Signet BTC faucet with Bitcoin Core

## Freelance Projects, 2023

- **NFT Marketplace Lead Architect:** Developed full NFT marketplace on Arbitrum including frontend and wallet management, using viem, ethers, wagmi; drafted whitepaper & tech stack selection, implemented risk management & security audits for digital assets
- **Blockchain Lead:** Built low-latency C++ arbitrage bot using libbitcoin-system, optimized mempool discovery & peer latency, designed and migrated Balancer-inspired DeFi protocol (stablecoin, staking, 8-asset pools) to Sei network mainnet using Foundry toolchain, developed node crawler for proximity-based discovery; helped deploy VanillaSwap smart contracts to DeFiChain mainnet after EVM integration

## Senior C++ Developer, DeFiChain, 2021

- Integrated full EVM capabilities (SputnikVM) into Bitcoin UTXO chain, requiring deep understanding of EVM internals, smart contract patterns, and DeFi mechanics
- Developed new RPC endpoints on Bitcoin Core
- Built Python e2e testing framework

## Earlier Career (2016–2020)

### 2019: Wallix, C++ Developer (Cybersecurity)

- Developed secure REST APIs with OpenSSL, Boost
- Built TLS-secured communication libraries
- Led migration to React web app

### 2018: Indra (Minsait), Fullstack Blockchain Developer

- Deployed production Hyperledger networks
- Built apps with Angular, React, Node.js
- Integrated Web3.js + Solidity contracts

### 2016: OpenNebula, Fullstack Cloud Engineer

- Integrated Stripe payments
- Maintained frontend & middleware
- Delivered OpenNebula Practitioner Course

## Education

### M.Sc. Computer Science

Eötvös Loránd University, Budapest, 2017

### B.Sc. Software Engineering

Universidad Complutense, Madrid, 2012 – 2016 Thesis: CryptoMaster

## Certifications

C2 CEFR (2017) • C1 Cambridge Advanced English (2010)

## Technical Skills

## **Languages**

C++, Rust, TypeScript, Solidity, Python, JavaScript

## **Blockchain & Web3**

Bitcoin Core, UTXO / PSBT, Runes / Inscriptions, EVM / ERCs, ICP Canisters, Uniswap v3/v4, Hyperledger, viem, ethers, wagmi, Foundry, Hardhat

## **DevOps & Tools**

Docker, CI/CD, Git, CMake, Linux, OpenSSL