# 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.

Contact: hi@dcorral.com | https://github.com/dcorral | https://x.com/dct\_cpp

## 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 (<a href="https://signet.dcorral.com">https://signet.dcorral.com</a>): 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 (ERC20/721, Uniswap v2/v3/v4, DeFi protocols).
- 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, TRIO.xyz (OrdinalsBot), 2025 - Present

- Built scalable TypeScript/Rust backend for high-demand Ordinals marketplace
- 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
- Maintained ord fork (<a href="https://github.com/sadoprotocol/ord">https://github.com/sadoprotocol/ord</a>) (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: Designed full Arbitrum NFT marketplace architecture, 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 DeFi protocol with stablecoin, staking, 8-asset pools, developed node crawler for proximity-based discovery

## Senior C++ Developer, DeFiChain, 2021

- Integrated EVM (SputnikVM) into Bitcoin UTXO chain
- 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

## DevOps & Tools

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