

Antonio Ibarra

Cardano Smart Contract Engineer

Designing and building secure on-chain and off-chain solutions for the Cardano ecosystem

Location: Remote (Zacatecas, Mx.)

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● PROFILE

- Smart contract engineer specialized in the Cardano ecosystem
- Strong focus on security, correctness, and (E)UTxO-based design
- Comfortable working remotely with distributed teams
- Highly motivated learner, continuously adopting new technologies

● EXPERIENCE

Relevant roles & delivery highlights.

Teacher Assistant

March 2019 – December 2025

Input Output Global (IOG)

- Teaching assistant for the Plutus Pioneer Program
- Delivered courses and workshops on Blockchain, Cardano, and Plutus
- Participated in Cardano Days, teaching blockchain and smart contracts at universities
- Worked extensively with Cardano tooling such as cardano-cli, cardano-node, Plutus, and Aiken
- Assisted in testing and validating Cardano-related development tools

● SELECTED PROJECTS

Contracts, integrations, and reference implementations.

Spending App

TypeScript • MeshJS • React •
Next.js • Aiken

Educational tool designed to teach the (E)UTxO model and smart contract programming using Aiken

- Demonstrates UTxO and extended UTxO concepts through practical examples
- Implements Web3 interactions using TypeScript and MeshJS
- Includes smart contract validation logic for real-world scenarios

● CORE SKILLS

Cardano

UTxO model

Plutus (on/off-chain)

Aiken

Ledger concepts

Tx constraints

Security

Invariants

Attack surface reduction

Code reviews

Test strategy

Best practices

Languages

Haskell

TypeScript

JavaScript

Off-chain

MeshJS

Next.js

API design

Wallet integrations

Cardano Smart Contracts Lab

TypeScript • Aiken • Haskell •
MeshJS • Python • Command Line

A hub showcasing multiple smart contract examples across languages and off-chain frameworks in the Cardano ecosystem

- Combines multiple programming paradigms and smart contract languages
- Provides educational material and examples for learning Cardano smart contracts
- Covers both on-chain and off-chain development approaches

● EDUCATION

Master's in Software Engineering

Centro de Investigación en Matemáticas (CIMAT), Zacatecas
— August 2017 to July 2019. Professional graduate program focused on software engineering best practices, project management, quality processes, and advanced development methodologies in a rigorous research-oriented environment.

● FOCUS

- Audit-ready smart contracts
- Clear invariants & validation logic
- Remote collaboration & documentation