

Antonio Rodríguez-Ynyesto | Web3 Software Engineer

▪ ynyesto@gmail.com ▪ github.com/Ynyesto ▪ [LinkedIn](#) ▪ ynyesto.dev ▪ Madrid, Spain (CET/CEST)

Web3 Software Engineer who builds DeFi products end-to-end, from smart contracts to the back-end systems that keep them running in production. Founded and led development of BitChill, an automated, non-custodial and yield-bearing bitcoin DCA protocol live on Rootstock. Developed Aave liquidation infrastructure at Umbrella Research. Strongest in Solidity, EVM protocol development, Foundry testing, DeFi back-end systems and TypeScript-based Web3 integrations.

Key Achievements

- **Founded and built BitChill** — designed the smart contract architecture and built the back end and front end. Live in production on mainnet since November 2024 on private beta, and open to the public since September 2025, now fully automated and requiring no ongoing involvement from me.
- **Built Aave liquidation infrastructure at Umbrella Research**, working directly alongside founders with ConsenSys, Avantgarde, and OpenZeppelin backgrounds — owned the TypeScript back end (indexers, API), PostgreSQL/Redis data layer, and React front end.
- **Won prizes at every hackathon I have attended**, including **four prizes at ETHGlobal** hackathons.
- **Found and reported a live bug in Tropykus** (Compound fork on Rootstock) via **Immunefi**, since fixed in the protocol's documentation.

Technical Skills

- **Smart contracts:** Solidity, EVM, smart-contract architecture, Foundry (unit, integration, fuzz, and invariant testing), ERC-20/721/1155/4626/6909, upgradeability patterns, Safe multisig, Slither, Aderyn
- **Blockchain & DeFi:** Viem, Ethers.js, Tenderly, Chainlink, Rootstock, Aave, Compound, Uniswap
- **Back-end:** TypeScript, Node.js, PostgreSQL, Redis, REST APIs, monitoring, indexing, automations
- **DevOps:** Docker, GitHub Actions
- **AI-assisted engineering:** Claude Code, Codex, Cursor, and MCP-based workflows; agent-assisted implementation, testing, research, and code review
- **Other:** React, JavaScript, Python, C#

Experience

[Umbrella Research](#) | Blockchain Developer | March 2025 - June 2026

- Developed an automated Aave liquidation engine alongside Umbrella founders Carlos Buendía (formerly ConsenSys and Avantgarde) and José Montero (Blockchain Security Research Manager at OpenZeppelin), covering protocol integration, execution infrastructure, and performance optimization.
- Owned most of the TypeScript back-end work (indexers, data API, etc.), managed PostgreSQL and Redis staging and production databases, built the React front-end, and updated the Solidity contract used by the system.
- Researched competitors to inform execution strategy and keep the system competitive.

[BitChill](#) | Founder & Tech Lead | February 2024 - March 2026

- Founded BitChill after winning a Rootstock-sponsored hackathon with a proof of concept; secured a Rootstock grant and led architecture and active development through March 2026. Automated production purchases have run weekly since September 2025; as of July 2026, the protocol had executed 905 individual DCA purchases across 83 batch transactions. I continue occasional production maintenance.
- Designed and built BitChill's Solidity smart contract protocol, including:
 - Support for two stablecoins: DOC and USDRIF.
 - Yield generation through Tropykus or Sovryn between purchases.
 - rBTC purchases through Money on Chain redemption (DOC) or Uniswap (USDRIF).
- Built Foundry unit, integration, and invariant test suites; set up the Safe admin multisig and wrote the protocol documentation.
- Built the back end: PostgreSQL database, REST API, monitoring, event indexing, and automated periodic

purchases.

- Built the React front end.

[Alstom](#) | Software Designer | April 2022 - March 2025

- Developed, maintained, and validated railway signalling software in C# using Visual Studio 2022.

[Cognizant](#) | RPA Developer | April 2021 - April 2022

- Built robotic process automation workflows with UiPath, Blue Prism, and Automation Anywhere.

[Zeus Control](#) | Junior Engineer in Automation & Control | September 2020 - December 2020

- Supported industrial automation projects during an engineering internship.

Selected Contributions

[EVM Storage Codes](#) | July 2026

- Added EIP-1967 and legacy proxy resolution, decoded on-chain storage values, and recursive Solidity project-directory uploads with relative-import support; also fixed correctness and UI bugs in an open-source EVM storage layout inspector.

[Immunefi](#) - [Tropykus](#) | November 2025

- Reported a low-severity bug via Immunefi in Tropykus' fork of Compound's CToken contract; the issue was fixed in the protocol's documentation.

Hackathons

ETHGlobal Lisbon - OG Sponsor Prize | July 2026

- Built AI agent integrations (MCPs, Uniswap, The Graph) for Orloj, a project built at ETHPrague by my colleagues.

ETHGlobal Bangkok - Three Sponsor Prizes | November 2024

- Built Migratooooor, an ERC-20 migration tool from Ethereum L1 to multichain on L2s using Scroll L1SLOAD and Chainlink CCIP.
- Implemented the CCIP integration, which won Chainlink's Best Use of CCIP prize; the project also won Scroll's L1SLOAD second prize and a Blockscout pool prize.

Vottun & DEXTools Hackathon sponsored by Rootstock | January 2024

- Built the BitChill proof of concept and won first prize.

Block & Change Hackathon - Social Impact Innovation Prize | October 2023

Education

Selected Training

- Assembly & Formal Verification - Cyfrin Updraft (January 2026)
- Smart Contract Security - Cyfrin Updraft (August 2025)
- Advanced Foundry - Cyfrin Updraft (November 2023)
- Uniswap Hooks Incubator - Atrium Academy (March 2025)

Academic Education

- M.Sc. in Industrial Engineering and M.Sc. in Automation & Robotics - Technical University of Madrid (UPM). Average grade: 8.74/10 (2018-2021)
- B.Sc. in Industrial Technologies Engineering - Technical University of Madrid (UPM). Average grade: 7.96/10 (2014-2018)

Technical Writing

- **CTF write-ups**
 - [The Rekt Games](#): The Red Guild, Devcon 7 SEA (Dec. 2024)
 - Ethernaut. Levels [32](#), *Impersonator*, and [33](#), *Magic Animal Carousel* (Dec. 2024)
- **Protocol research**
 - [Proposer-Builder Separation - Ethereum Protocol Fellowship wiki contribution.](#)
 - [Quantitative research directions for staking providers.](#)