

DAVID BONILLA

Blockchain & AI Engineer

DeFi · Smart Contracts · Digital Asset Infrastructure · AI Systems

Switzerland · Swiss B Residence Permit
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PROFILE

Blockchain and AI-focused full-stack engineer building smart contracts, DeFi applications, digital-asset infrastructure, backend systems, and AI-native agent infrastructure. Founder-level engineer experienced taking early-stage products from architecture through implementation across Solidity/EVM, TypeScript, Node.js, React/Next.js, PostgreSQL, wallet infrastructure, APIs, and blockchain integrations. Experienced in technical architecture, product engineering, security analysis, deployment, and engineering leadership.

CORE TECHNOLOGIES

Blockchain & DeFi	Solidity · Ethereum/EVM · Ethers.js · OpenZeppelin · Hardhat · Foundry · ERC-20/721 · Staking · Governance · AMMs · Oracles · Smart Contract Security · Solana/SPL
Full-Stack	TypeScript · JavaScript · Node.js · Express · React · Next.js · REST APIs · PostgreSQL · Prisma · MongoDB
AI & Infrastructure	LLM/API Integration · AI Agent Infrastructure · Agent Workflows · MCP · n8n · Ollama · Docker · Linux · Git/GitHub · CI/CD · Vercel

PROFESSIONAL EXPERIENCE

Founder & Blockchain / AI Architect DecentraMind Labs, Inc. · 2025 - Present

- Architect AI-native agent infrastructure spanning blockchain, backend, database, AI, and application layers.
 - Build TypeScript/Node.js services and PostgreSQL/Prisma systems for persistent agent identity, memory, tools, skills, and execution workflows.
 - Design wallet authentication, authorization, controlled tool execution, permissions, scheduling, isolation, and deterministic guardrails.
 - Architect blockchain proof mechanisms for selected system activity and develop React/Next.js product interfaces.
 - Lead technical architecture, implementation planning, engineering decisions, code review, and product development.
- Stack: TypeScript · Node.js · Next.js · React · PostgreSQL · Prisma · Ethers.js · AI/LLM APIs · Docker

Head of Development SureStack Technology Group Inc. · 2025 - Present

- Lead blockchain, backend, analytics, and application development for an early-stage digital-asset intelligence company.
 - Develop Solidity infrastructure for staking, governance, rewards, oracle integration, policy management, and token systems.
 - Build wallet, token, smart-contract, market, and blockchain intelligence capabilities and contribute to Prime Intelligence.
 - Integrate Etherscan, Infura, Alchemy, Chainlink, LunarCrush, and related blockchain/data services.
 - Contribute to security architecture, technical roadmaps, code review, deployments, and engineering standards.
- Stack: Solidity · TypeScript · Node.js · React · Next.js · PostgreSQL · Ethereum/EVM · Docker

SELECTED ENGINEERING WORK

AMM DEX Aggregator DeFi Protocol Engineering · Public Sepolia Demo	Built a two-AMM aggregation project with Solidity contracts and a React/Ethers.js dApp. Implemented reserve-ratio pricing, on-chain quote comparison, MetaMask integration, liquidity operations, and selected-AMM execution. Stack: Solidity · Hardhat · Ethers.js · React · Ethereum Case study: davidbonilla.dev/work/amm-dex/
Institutional DLT Risk Audit Smart Contract Security Analysis	Performed independent static-security analysis of OpenZeppelin ERC-20 components using Slither, manual finding validation, and reproducible Solidity tooling. Published evidence-backed findings without presenting automated signals as confirmed vulnerabilities. Stack: Solidity · Slither · OpenZeppelin · solc Case study: davidbonilla.dev/work/dlt-risk-audit/

EARLIER BLOCKCHAIN EXPERIENCE

Blockchain Developer Intern → Lead Blockchain Developer
FLOWERWORK · Nov 2024 - Feb 2025

- Joined through a blockchain development internship and progressed into lead responsibilities.
 - Contributed to token, staking, governance, and cross-chain blockchain infrastructure.
 - Participated in architecture, debugging, technical planning, integration, and developer mentorship.
- Stack: Solidity · Ethereum/EVM · Blockchain Infrastructure

Founder & Blockchain Engineer
FLUFFER · 2023 - 2024

- Founded and launched a public Solana token project, combining blockchain execution with product and go-to-market responsibilities.
 - Led the project from concept through public token launch and worked with SPL token infrastructure and the broader Solana ecosystem.
 - Built and operated the public web experience and onboarding materials; coordinated KYC and launch operations.
 - Led tokenomics, launch strategy, community growth, and technical/product operations across the project lifecycle.
- Stack: Solana · SPL Tokens · JavaScript · Web3

Blockchain Engineering / Architecture Contributor
MediCureOn · 2024 - Early 2025

- Contributed to MediCoin and blockchain infrastructure across smart-contract architecture, token mechanics, deployment, and blockchain DevOps.
 - Worked on MediCoin smart contracts and implemented token presale and vesting functionality.
 - Contributed to contract testing, deployment workflows, smart-contract security improvements, and remediation.
 - Supported blockchain architecture discussions and technical documentation.
- Stack: Solidity · Ethereum/EVM · Hardhat · OpenZeppelin · Node.js

ENGINEERING TOOLKIT

Smart Contracts	ERC-20/721 · Staking · Vesting · Governance · Governor/Timelock · AMMs · Oracles · Approval Flows · Security
Blockchain Apps	Wallet Integration · Ethers.js · MetaMask · Contract Reads/Writes · Transaction Workflows · Ethereum/EVM · Solana/SPL
AI + Blockchain	Agent Infrastructure · Wallet Identity · Persistent Memory · Controlled Tool Execution · LLM Integration · Blockchain-Verifiable Activity
Backend	Node.js · Express · PostgreSQL · Prisma · MongoDB · REST APIs · Docker · Linux · Git/GitHub · CI/CD

EDUCATION & PROFESSIONAL DEVELOPMENT

MIT Professional Education Blockchain Technologies: Business Innovation and Application · 2021	Professional education focused on blockchain technology, decentralized systems, digital assets, and blockchain-driven business innovation.
Dapp University Blockchain Mastery Program · 2023	Hands-on blockchain development covering Solidity, Ethereum, smart contracts, decentralized applications, Web3 integration, and DeFi development.

LEADERSHIP & CAPABILITIES

Technical Architecture · Full-Stack Product Development · Smart Contract Engineering · DeFi · AI/Blockchain Integration · Technical Roadmaps · Code Review · Security-First Design · Technical Documentation · Cross-Functional Collaboration · Early-Stage Product Development

LANGUAGES & WORK AUTHORIZATION

Based in Switzerland	Work Authorization Swiss B Residence Permit	Languages English - Fluent · Spanish - Fluent · German - A1
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