

MD Ayaan Siddiqui

Blockchain Developer | Web3 Project Manager | Agentic Engineer | Independent Researcher

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PROFESSIONAL SUMMARY

Full Stack Blockchain Developer with 2+ years of international remote experience building production-grade DeFi protocols and Web3 applications. Skilled in Solidity, Foundry, Hardhat, Next.js, Stablecoins, Solana, EVM ecosystems and AI-assisted engineering with proven track record of shipping audited smart contracts and founding engineering at YC-track startups. MBA in Blockchain Management from Guglielmo Marconi University, Italy and exploring advanced research on Agentic Infrastructure in Blockchain. Published a research paper on cross-chain agent architecture and authored a Solidity smart contracts ebook.

TECHNICAL SKILLS

- **Smart Contracts and Blockchain:** Solidity, Foundry, Hardhat, EVM, Smart Contract Development, ERC-20, ERC-721, ERC-4626, Gas Optimization, Fuzz Testing, Invariant Testing, OpenZeppelin, Chainlink Oracles, Solana, Layer 2 (Arbitrum, Optimism, Base)
- **DeFi and Web3:** DeFi Protocols, Stablecoins, Lending and Borrowing, Yield Aggregators, Liquidation Mechanics, Health Factor, PSM Modules, Wallet Integration, Hardware Wallets
- **Frontend and Full Stack:** Next.js, React, TypeScript, JavaScript, Tailwind CSS, Ethers.js, REST APIs, Supabase, Capacitor, Tauri
- **AI and Tooling:** Generative AI, LLM Integration, Agentic Engineering, Claude Code, Codex, Prompt Engineering, Vibe Coding
- **Others:** Cross-Platform Deployment (Chrome Extensions, Android APK, Mac Desktop), Technical Project Management, GitHub, Vercel.

PROFESSIONAL EXPERIENCE

DigiChain (Bitcoin Stablecoin Ecosystem) | Blockchain Developer

Remote, US | Jul 2024 - Oct 2025

- Developed Bitcoin-based DeFi stablecoin features across yield aggregation, lending/borrowing, and PSM modules.
- Integrated protocol flows into frontend interfaces, connecting user-facing actions with DeFi module functionality.
- Worked across smart contract and frontend implementation in a remote Web3 product environment.

Cypherock (Hardware Crypto Wallet) | Full Stack Web3 Developer

Gurgaon, India | Apr 2024 - Jul 2024

- Built and enhanced software for hardware cryptocurrency wallet products with focus on UX, reliability, and bug resolution.
- Debugged wallet application workflows and improved user-facing Web3 software quality across the multi-chain wallet ecosystem.

D Frame (Web3 Data Firm) | Founding Member / Web3 Engineer

Remote, Netherlands | Dec 2022 - Mar 2024

- Led development of Chrome extensions and client dashboards integrating data pipelines, AI APIs, and blockchain payout systems.
- Supported product and engineering execution as founding member; drove YC Alpha submission preparation.

KEY PROJECTS

ImanVibes-Quran by Mood | [Website](#) | [Chrome](#) | [GitHub](#)

April 2026

- Built and deployed a privacy-first Islamic lifestyle application featuring Quran reader, prayer times, Qibla direction, and Hijri calendar.
- Cross-platform deployment as a PWA web app on Vercel, Salah Companion Extension on Chrome Web Store, and Android APK via Capacitor; Stack: Next.js, TypeScript, Tailwind CSS.

Decentralized Stablecoin Protocol | [GitHub](#)

Feb 2026

- Engineered an exogenous algorithmic pegged stablecoin backed by wETH and wBTC using Solidity, Foundry, Chainlink price oracles, and OpenZeppelin libraries.
- Implemented advanced fuzz testing, invariant testing, oracle handling, liquidation engine, and Health Factor calculations for protocol solvency.

LoomLess - Privacy-First Screen Recorder | [Website](#) | [Chrome](#) | [GitHub](#)

Aug 2025

- Architected and shipped a forever-free, no-signup screen recording Chrome extension published live on Chrome Web Store with local-first architecture.
- Zero cloud storage ensuring complete user privacy with instant local save; Stack: JavaScript, HTML, CSS, Chrome Manifest V3.

EDUCATION

Guglielmo Marconi University, Italy (Online) | MBA in Blockchain Management

Oct 2024 - Dec 2025

- Final Grade: 106/110 (Eccellente)

IK Gujral Punjab Technical University, India | B.Tech in Computer Science and Engineering

Oct 2020 - Jun 2024

- CGPA: 7.71/10

PUBLICATIONS

- "A Cross-Chain Architecture for Coupling ERC-8004 Agent Identity with x402 Micro-Settlement Across Solana and Ethereum", Zenodo (CERN), July 2026, <https://zenodo.org/records/21394562>
- "Autonomous Agent Economies on Blockchain: Business Models and Value Creation via the x402 Protocol in Web3", Zenodo (CERN), August 2026, <https://zenodo.org/records/21730620>
- "Solidity Smart Contracts: From Zero to Production", Leanpub, July 2026, <https://leanpub.com/solidity-ebook>

CERTIFICATIONS AND LANGUAGES

Certifications: Ethereum Developer, Generative AI for Software Development, Generative AI Foundations, Foundry 101.

Languages: English (Professional, Duolingo 140/160), Hindi (Native), Urdu (Native).

Interests: Cryptocurrency, Agentic Infrastructure on Blockchain, AI Tools, Blockchain Development, Solana Development.