

# Devendra Chauhan | Backend & Smart Contract Engineer

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Backend & Smart Contract Engineer with **4+ years of experience** building production-grade blockchain systems handling real capital. I've worked across **EVM, Cosmos, and NEAR ecosystems**, focusing on cross-chain infrastructure, DeFi protocols, and reliability at scale. My work includes designing and deploying smart contracts, building indexers and backend systems, and operating in early-stage environments where security, tradeoffs, and execution matter.

## Key Achievements

- Built and deployed an agent-based cross-chain bridge from scratch, **safely migrating \$1.8M** in live capital **from BSC to Ethereum**.
- Designed and shipped production-grade smart contracts across **EVM (Solidity) and Cosmos (Rust)** for an escrow-based, agent-driven **OrderBook DEX** with **on-chain settlement**.
- Owned end-to-end protocol infrastructure, including smart contracts, backend services, custom blockchain indexers, and real-time WebSocket systems coordinating on-chain and off-chain state.
- Developed **custom indexers across multiple chains** to track events, maintain cross-chain state consistency, and power live trading and monitoring dashboards.

## Technical Skills

- **Programming Languages:** Solidity, Rust, TypeScript, JavaScript, Python, SQL (Familiarity: Move)
- **Blockchains:** EVM (Ethereum, BSC, Polygon, Base, Arbitrum), Cosmos (Fetch.AI), NEAR Protocol, Sui
- **Development:** Foundry, Hardhat, OpenZeppelin, ethers.js, web3.js, web3.py, cosmpy, uagents
- **Backend & Systems:** Node.js, FastAPI, WebSockets, custom blockchain indexers, on/off-chain coordination
- **Infra & DevOps:** Docker, AWS (Lambda, EC2), GCP, CI/CD with GitHub Actions

## Experience

### [Mettalex](#) | Smart Contract & Backend Engineer (Core team) | August 2023 - Present

- Built and deployed an agent-based cross-chain bridge from scratch, transferring \$1.8M worth of MTLX tokens from BSC to Ethereum after the AnySwap bridge shutdown. Developed 3 smart contracts, complete backend infrastructure, and serverless cloud functions.
- Developed 15+ smart contracts across EVM (Solidity) and Cosmos (Rust) chains for an agent-based P2P OrderBook DEX where users deposit into escrow, off-chain agents match trades, and contracts handle settlement.
- Built Node.js and Python backend systems with WebSocket integration for real-time orderbook updates coordinating agent logic and syncing on-chain/off-chain state.
- Created custom blockchain indexers for EVM and Cosmos chains to track events and maintain cross-chain state consistency for agent decision-making and live trading graphs.
- Stress-tested the system by simulating up to 5,000 concurrent agents to identify bottlenecks and inform architecture improvements.

### [Qstn](#) | Software Engineer | March 2023 - August 2023

- Built and deployed Rust-based NFT smart contracts on NEAR Protocol compatible with major marketplaces (Paras, Mintbase, Few-and-Far), supporting royalties and custom constraints.
- Integrated Stripe payments for fiat-to-NFT purchases and launched a 1,000 NFT mainnet collection.
- Implemented four wallet login flows ensuring seamless user onboarding and secure transactions.
- Built a backend using TypeScript, Node.js, and MongoDB, set up CI/CD, and wrote tests with Jest.

### **Invex | Junior Software Engineer | September 2022 - June 2023**

- Built smart contracts for DeFi infrastructure that enable creating, trading, and managing tokenized index portfolios on NEAR Protocol.
- Integrated smart contracts with Ref Finance DEX using async cross-contract calls, and wrote tests to prepare for security audits.
- Built and maintained backend infrastructure with real-time price updates for accurate index valuation.

### **Blockbilly | Software Engineering Intern | April 2022 - September 2022**

- Worked with the DeFi team to build index management protocols on NEAR Protocol.
- Built smart contracts in Rust for creating and managing tokenized indexes.
- Integrated smart contracts with decentralized exchanges using cross-contract calls and async patterns.

### **[Future Ready Talent](#) | Software Engineering Intern | September 2021 - January 2022**

- Built a cloud-based platform to analyze videos for sentiment, behavioral polarity, person identification, and caption generation.
- Integrated Azure Blob Storage for video storage, Azure Video Analyzer for analysis and captioning, and Azure Web Hosting to deploy the application on Azure.

### **[VIT](#) | Data Analytics & ML Intern | June 2021 - September 2021**

- Led a small team of 4 to build an interactive Power BI dashboard visualizing student academic performance and key trends for decision-making.
- Performed data cleaning, exploratory data analysis (EDA), data transformation, and predictive analysis on student academic datasets.

## **Projects**

### **Xap**

- Platform enabling link-based cross-chain USDC payments without gas tokens or chain-specific accounts.
- Implemented cross-chain transfers using Wormhole and Circle CCTP, with ERC-4337 account abstraction via Thirdweb; deployed on testnet across 6 EVM chains.

### **[Dead Man's Will](#)**

- Protocol for secure transfer of crypto assets to a nominee based on predefined conditions.
- Built smart contracts with time-based checks and pre-approved asset transfers; integrated Privy for email-based secure wallet creation and access control.

### **[Play11s](#)**

- Fully on-chain gaming ecosystem where users mint team NFTs, trade them in a native marketplace, and compete in PvP matches.
- Built on Base (L2) with ERC-4337 account abstraction, using Thirdweb, Express.js, MongoDB, Razorpay, and IPFS.

## **Hackathons**

### **Mammoth (Celestia) | Grand Finalist | March 2025**

- Built a prediction market integrated with Farcaster and got selected as a finalist and awarded \$20k.

## **Education**

- Bachelor of Engineering in Information Technology - CGPA: 9.73/10, Vidyalkar Institute of Technology, India (2019–2023)