

KAUSHAL SADHU

Senior Full Stack Blockchain Developer | Technical Lead AI, Backend & Scalable Systems

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Professional Summary

Senior Full Stack Blockchain Developer with 10+ years of experience building scalable backend systems, decentralized platforms, and AI-integrated applications.

Expertise in Distributed Ledger Technology (DLT) and blockchain platforms including **Ethereum, Polygon, Binance Smart Chain (BSC), Tron, Polkadot, Hedera, and Solana**, with strong experience developing smart contracts using **Solidity and Rust**, and building decentralized applications (**DApps**) using **Web3.js** and **Substrate**.

Strong background in distributed storage (**IPFS/IPFS Cluster**), cloud infrastructure, and backend development using **Node.js, NestJS, Golang, and PHP**. Proficient in full stack development with **React.js, Next.js, HTML5, CSS3, Tailwind CSS**, and modern JavaScript frameworks.

Extensive experience working with PHP-based technologies including **Laravel, CodeIgniter, WordPress, Magento, and OpenCart**, along with building fintech solutions such as payment gateways, cryptocurrency platforms, **NFT marketplaces, wallet integrations, decentralized finance (DeFi), decentralized exchanges (DEX), and centralized exchanges (CEX)**.

Hands-on experience integrating AI solutions including chatbots, automation workflows, and **RAG-based semantic search** using OpenAI and LLM APIs.

Proven Technical Lead skilled in designing, optimizing, and scaling complex production systems.

Skills

Blockchain & Web3:

**Ethereum, Polygon, Binance Smart Chain (BSC), Tron, Polkadot, Hedera, Solana
Solidity, Rust, Web3.js, Ethers.js, Substrate, Chainlink (Oracles)**

Smart Contracts, DApps, DeFi, DEX, CEX, NFT Marketplaces

Truffle, Hardhat, Foundry, Remix, Ganache, MetaMask, WalletConnect

Distributed Storage:

IPFS, IPFS Cluster

Cluster Replication, Pin Queue Management, CID Recovery
Garbage Collection, Storage Optimization, SSD/HDD Architecture
ipfs-cluster-ctl, REST APIs, Bulk Pin Workflows

Backend Development:

Node.js, NestJS, Express.js, Golang, PHP

REST APIs, Microservices Architecture, API Design
JWT Authentication, Scalable Systems

Frontend Development:

React.js, Next.js

HTML5, CSS3, Tailwind CSS, JavaScript (ES6+), jQuery, Bootstrap

PHP Ecosystem:

Laravel, CodeIgniter, WordPress, Magento, OpenCart

Databases & Vector DB:

MySQL, PostgreSQL, MongoDB, Redis, Milvus (Vector Database)

AI & LLM:

OpenAI API, LLM Integration

RAG (Retrieval-Augmented Generation), Vector Embeddings
Semantic Search, AI Chatbots, Prompt Engineering, Workflow Automation

DevOps & Cloud:

AWS (EC2, VPC, EKS, ECR), DigitalOcean

Docker, Docker Compose, Terraform

Nginx, HAProxy, Load Balancing

CI/CD (GitHub Actions), PM2, systemd

Infrastructure & System Design:

Distributed Systems, High Availability, Performance Tuning
IOPS Optimization, Network Optimization, Fault Tolerance

APIs & Integrations:

Payment Gateways: Stripe, PayPal, NOWPayments, Wyre, Onramper, Alchemy Pay

Crypto Exchanges: Binance, Coinbase, KuCoin, Kraken, MEXC, WhiteBit, Gemini

Wallets: MetaMask, MyEtherWallet, Blockchain.com

Market Data: CoinGecko, CoinMarketCap, CoinAPI

Blockchain Infra: Infura, Fireblocks, Tatum, BlockCypher, Zero Hash, Prime Trust

KYC & Compliance: Veriff, Sumsb, ShuftiPro, Ondato, Coinfirm, TRM Labs

Communication APIs: Twilio, SendGrid, MessageBird, Vonage SMS, Esendex

Work Experience

Senior Blockchain & Backend Engineer (Independent Consultant)

Self-Employed | Feb 2026 – Present (Remote)

- Providing blockchain infrastructure consulting for decentralized storage and distributed systems
- Designed IPFS Cluster architectures with optimized replication strategies and storage performance
- Developed Go-based backend services for secure file streaming and IPFS integrations
- Advised on validator node setup and distributed blockchain architecture (Substrate / Polkadot)
- Managed cloud infrastructure and performance tuning across AWS, Nginx, and HAProxy

Technical Lead - Full Stack/ Blockchain

Pegasus Infocorp Pvt. Ltd (Mumbai) | Mar 24, 2025 - Feb 13, 2026 (Remote)

- Led design and optimization of IPFS Cluster-based distributed storage systems for production workloads
- Managed high-volume pin queues and replication strategies across multi-node environments
- Architected hybrid SSD + HDD storage systems improving performance and cost efficiency
- Built Go backend services for encrypted streaming, chunked downloads, and IPFS integration
- Automated infrastructure using Bash scripts for provisioning, monitoring, and recovery
- Managed cloud infrastructure (AWS) including security, scaling, and performance tuning

- Implemented load balancing (Nginx / HAProxy) ensuring high availability systems
- Operated Substrate-based validator nodes (Aura, GRANDPA, ImOnline) and network health monitoring
- Supported PoA → NPoS migration planning and validator lifecycle management

Sr. Full Stack Blockchain & PHP Developer | Technical Project Lead

Mxicoders Pvt Ltd. (Ahmedabad) | Jul 20, 2015 - Mar 21, 2025 (Remote)

- Developed dynamic, high-performance web applications improving user experience, traffic, and engagement
- Designed and implemented full-stack solutions (frontend + backend) ensuring scalability and optimal performance
- Delivered blockchain solutions including **ICO platforms, node** and **masternode setup**, crypto API integrations, and Solidity-based smart contract development
- Built and deployed smart contracts using **ERC20, ERC721, ERC1155, and ERC1400** standards for tokens, NFTs, and **security token platforms**
- Designed and developed decentralized applications (DApps) for **NFT marketplaces** and DeFi ecosystems
- Integrated third-party APIs using REST and SOAP architectures for seamless system communication
- Implemented payment gateway integrations including PayPal, Stripe, and Authorize.net for secure transactions
- Managed server infrastructure and hosting environments including **AWS, WHM, cPanel, Plesk, DNS, SSL certificates, and FTP/SSH** configurations
- Developed applications using **PHP (Laravel, CodeIgniter), MySQL, PostgreSQL, React.js, HTML, CSS, JavaScript, jQuery, WordPress, Magento, Shopify, and OpenCart**
- Implemented Ajax and JSON-based workflows to enhance performance and deliver seamless user experiences
- Followed **SDLC** best practices and utilized project management tools including **JIRA, Trello, and Asana** for efficient delivery
- Built and maintained complex systems including binary and unilevel **MLM platforms** ensuring scalability and reliability
- Integrated WordPress platforms with third-party systems and monitored performance using Google Analytics
- Maintained clean, well-documented code and version control using Git (GitHub, GitLab)
- Collaborated with cross-functional teams including designers, developers, and project managers to deliver high-quality solutions

- Developed and managed WooCommerce-based eCommerce platforms with custom features and plugin integrations
- Ensured timely delivery of scalable and high-performance eCommerce solutions
- Performed debugging, testing, and issue resolution to ensure system stability and reliability
- Followed coding standards and best practices to maintain high-quality software development

Education

Master of Computer Application (M.C.A)

8.32 CGPA (2012-2015)

Gujarat Technological University (G.T.U)

Bachelor of Computer Application (B.C.A)

75.67% (2009-2012)

Hemchandracharya North Gujarat University (H.N.G.U)

Declaration

I hereby declare that the above mentioned information is correct to the best of my knowledge and belief.

KAUSHAL SADHU