

Sudais Budhathoki

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Experienced **Blockchain / Full Stack** developer with over 10 years of professional expertise in developing web applications, decentralized applications (Dapps), and **AI-driven** blockchain solutions.

Proficient in building and deploying NFT factories and marketplaces on both Mainnet and Layer 2 (L2) chains, including Polygon, Arbitrum, Optimism, and ZkSync. Led successful deployments of smart contracts for tokenization of real-world assets (RWA), KYC attestations, and implemented account abstraction techniques. Skilled at integrating **AI/ML models for fraud detection, predictive analytics, and intelligent smart contract automation**, enhancing security and efficiency across decentralized ecosystems. Possesses advanced skills in **architectural design**, contributing to the development of **next-generation smart contracts** and standards for tokenized capital markets, with a focus on scalability, security, and efficiency.

SKILLS

Solidity, Rust, Web3, JavaScript, Python, Golang, Move, TensorFlow, OpenAI API, NLP

WORK EXPERIENCE

Blockchain / Full Stack Developer, Marinade Finance

July 2022 - July 2025

- Managed the deployment involving smart contracts to RWA tokenization, KYC attestations, and account abstraction, resulting in a **40% reduction in transaction processing time** and enhancement of overall platform efficiency.
- Built a supply chain platform with Cosmos-SDK and Golang, creating smart contracts for tracking goods, verifying provenance, batch tracking, and real-time data sync, boosting transparency and efficiency in the supply chain. Enhanced the system with **AI-driven anomaly detection models** to identify irregularities in logistics data and prevent fraud.
- Spearheaded the design and development of a decentralized exchange (DEX) protocol, achieving a throughput of over **1000 transactions per second**. Integrated **AI-powered transaction routing and predictive analytics** to optimize liquidity management and reduce slippage.
- Designed and implemented smart contracts in Rust for various decentralized applications (dApps), resulting in a **30% reduction in gas consumption** compared to Ethereum-based smart contracts, leading to cost savings and improved efficiency. Additionally, incorporated **machine learning models** to forecast gas fee trends, improving transaction timing and user experience.

Blockchain / Full Stack Developer, ACryptoS

Jun 2018 – Jun 2022

- Participated in the creation and development of an **automation framework** to deploy and manage blockchain nodes and services and optimize resource usage across AWS, Azure, and GCP.
- Constructed and deployed innovative **web3 integrations** for DApps, enabling real-time connectivity with the Ethereum blockchain; boosted transaction throughput by 30% and reduced gas fees by an average of 15% across transactions.
- Applied smart contracts on **Layer 2 chains** (Polygon, Optimism), slashing gas fees by 45%, optimizing cost structures, and enhancing operational performance, resulting in a 30% increase in user transactions.
- Implemented feedback from **security audits** to enhance the robustness and reliability of smart contracts, resulting in a 40% reduction in vulnerabilities and security risks.

Full Stack Developer, Next Jump

Jun 2014 – May 2018

- Engineered an additional **revenue stream** by providing exceptional customer support, leading to \$18k in new license sales within the first three weeks following the latest product release.

- Improved **system reliability and performance** by addressing bottlenecks in PHP and Go API services. Implemented Kibana monitoring for issue detection, resulting in a significant 40% enhancement in system stability and performance.
- Directed the transition from PHP to Go for hotel and flight API services, achieving a remarkable 65% decrease in errors and a 20% reduction in latency, enhancing overall system performance.

EDUCATION

MS, Hong Kong University of Science and Technology

May 2014