HENRY ZHANG

Senior Blockchain Engineer

+44 (753) 710-6748 • henry.zhang.web@gmail.com • London, England, United Kingdom

Summary

Experienced and results-driven Senior Blockchain Engineer with over 6 years of hands-on experience in architecting and deploying scalable, secure blockchain systems. Specialized in smart contract development, protocol design, and decentralized application (dApp) engineering across Ethereum, Solana, and Cosmos SDK ecosystems. Proven track record in both enterprise-grade and open-source blockchain projects, with deep knowledge of DeFi, NFTs, Layer 1/Layer 2 chains, and cross-chain interoperability. Skilled in team leadership, technical mentorship, and integrating blockchain into legacy systems. Adept in cloud infrastructure, DevOps practices, and security-first design.

Experience

GreenBay
California, United States
Founding Engineer
01/2024 - Present

- Led architecture and development of a decentralized multi-chain payment platform on **EVM, Solana, and Cosmos SDK**.
- Designed production-ready **smart contracts** enabling token flow, compliance, and secure settlements.
- Integrated enterprise-grade **cloud services (AWS, IBM, Tencent)** to support multi-region deployments.
- Built React/Node.js-based dApp dashboard for real-time analytics and donation management.
- Implemented robust audit and testing workflows ensuring **maximum security and performance**.

Chainlink Labs
California, United States
Senior Smart Contract Engineer
12/2022 - 12/2023

- Key contributor to **Chainlink Staking v0.2**, developing validator logic and secure staking mechanisms.
- Enhanced **VRF and Data Streams** for improved reliability, scalability, and gas optimization.
- Co-developed **Cross-Chain Interoperability Protocol (CCIP)** for secure on-chain/off-chain communication.
- Conducted **code reviews and mentorship**, guiding junior engineers on smart contract best practices.
- Actively contributed to **technical documentation** and stakeholder-facing architecture reviews.

OpenSea
New York, United States
Senior Blockchain & Full Stack Developer
04/2018 - 10/2022

- Architected and deployed smart contracts for **ERC-721 & ERC-1155 NFT minting, listing, and auctions**.
- Developed scalable full-stack solutions using **React, Node.js, PostgreSQL**, and blockchain APIs.
- Integrated wallet and oracle providers, including **Chainlink for real-time price feeds**.
- Led **incident response** for smart contract vulnerabilities and system-level issues.
- Mentored junior developers and contributed to smart contract standards and internal tooling.

Education

Tsinghua University
Beijing, China
Bachelor of Science in Computer Science
09/2013 - 10/2017

Certification

Chainlink Smart Contract Mastery Certificate (2023)

AWS Certified Solutions Architect — Associate (2021)

Certified Blockchain Developer — Blockchain Council *(2020)*

Skills

Blockchain Development: Solidity, Rust, CosmWasm, Anchor, Web3.js, Ethers.js

Smart Contracts & Protocols: Chainlink VRF, CCIP, Staking, DeFi, NFT standards, Cross-chain

Frameworks & SDKs: Hardhat, Foundry, Truffle, Anchor, CosmJS

Chains: Ethereum, Solana, BNB Chain, Polygon, Cosmos SDK

Cloud & DevOps: AWS, IBM Cloud, Tencent Cloud, Docker, GitHub Actions, CI/CD pipelines

Skills

Security & Testing: Smart contract auditing, gas optimization, automated test frameworks

Databases & Tools: PostgreSQL, MongoDB, Redis, Tenderly, Metamask, Alchemy, Git

Full Stack: React, Next.js, TailwindCSS, TypeScript, Node.js, Python (FastAPI, Flask), Express.js