Lucas Wang

Senior Blockchain Developer

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SUMMARY

Experienced Blockchain/Web3 Developer with a robust background in crafting secure and efficient solutions using Solidity for smart contracts and Node.js, Python, Golang for backend development. Skilled in harnessing the power of the Solana blockchain to build scalable decentralized applications (dApps) and contribute to the evolving landscape of decentralized finance (DeFi). Proficient in integrating blockchain functionalities with web applications using web3.js, ensuring seamless user interactions and data management. Passionate about pushing the boundaries of blockchain technology to create innovative solutions that drive real-world impact and empower decentralized ecosystems.

SKILLS

Web3.js, Ether.js, Solidity, Solana, Rust, Smart contract, NFT, Truffle, Remix, Hardhat, Hyperledger Fabric, OpenZeppelin, Oracles, ZKPs

Typescript, React.js, Next.js, HTML, CSS, Javascript

Node.js, Python, Django, Golang

MySQL, PostgreSQL, MongoDB, Redis, AWS, Azure, GCP, Docker

Unit Testing, Agile development, DevOps, CI/CD, Kubernetes, Scrum

English: fluent

EXPERIENCE

Senior Blockchain Engineer

NextBlock   **Feb 2022 - Present**

- Designed and developed a decentralized token presale platform on the Solana blockchain, leveraging Rust for smart contract development and Anchor framework for streamlined Solana program development.
- Led the development of the first decentralized exchange (DEX) on a Solana fork chain using **Rust** and the **Anchor** framework.
- Collaborated with frontend developers to integrate React.js for dynamic user interfaces and Web3.js for blockchain data interactions, ensuring a seamless user experience.
- Developed smart contracts using Remix, Truffle, and Hardhat, implementing standards like OpenZeppelin (ERC-20, ERC-721).
- Worked on EVM chains (Ethereum, BSC, Polygon, Avalanche) and Solana network.
- Designed sniper bots in Rust to exploit arbitrage opportunities across platforms like Raydium, leveraging on-chain monitoring, smart contract integration, and WebSocket APIs for immediate execution.
- Developed bots for executing pump-and-dump strategies using programmatic wallets, employing transaction prioritization and gas optimization to gain strategic advantage
- Built and launched Smart Contracts for Artpassage NFT and Marketplace as well. I've used ERC-721 based NFT rather than ERC-1155.
- Implemented DeFi protocols with platforms such as Uniswap, Compound, and Aave for liquidity provision and lending/borrowing.
- Conducted audits and optimizations for on-chain data storage and retrieval, ensuring efficiency and scalability.
- Integrated Drizzle for frontend data management in Ethereum dApps, simplifying blockchain interaction.
- Developed microservices using Golang, focusing on indexing and organizing on-chain data to create user-friendly dashboards, while collaborating closely with Solidity smart contracts.
- Implemented blockchain applications with Cosmos SDK, Leveraged Hyperledger Fabric to develop permissioned blockchain solutions for enterprise-grade applications
- Developed DEX aggregator integrated with 26 DEX on Avalanche network.

Blockchain Developer

WFO   **May 2023 – Sep 2023**

- Designed and built NFT collection and NFT marketplace for extreme sports events.
- Led a blockchain team consist of 7 team members – frontend developers, backend developers, marketing guys and content writer.
- Designed the tokenomics of the WFO token and assisted listing on DEX
- Leveraged async Rust and explored REVM to optimize bot performance and extend functionality to non-EVM blockchain platforms.
- Utilized formal verification tools like Mythril and Slither during Solidity audits to ensure contract logic correctness and adherence to best practices, enhancing the robustness of decentralized applications.
- Developed and deployed smart contracts using the **Move language** on blockchain networks like **Aptos** and **Sui**.

Senior Web & Blockchain Developer
FundMyContract   **Jan 2019 - Nov 2021**
- Developed responsive and dynamic frontend interfaces using React.js , Next.js and TypeScript, and Designed and implemented backend APIs and services using Node.js and Express.js
- Integrated various databases including MySQL, PostgreSQL, and MongoDB for efficient data storage and retrieval.
- Deployed and optimized web applications using Vite for fast build times and efficient development workflows.
- Managed continuous deployment and hosting of projects with Vercel, ensuring seamless deployment of static sites and serverless functions.
- Utilized AWS (Amazon Web Services) for cloud infrastructure, including EC2 for virtual servers, S3 for file storage, RDS for managed databases, and Lambda for serverless computing.
- Implemented CI/CD pipelines using Jenkins and AWS CodePipeline, automating build, test, and deployment processes
- Practiced Agile methodologies (Scrum/Kanban) in cross-functional teams, participating in daily stand-ups, sprint planning, retrospectives, and backlog grooming sessions.
- Conducted unit testing and integration testing using Jest, Mocha, and Chai, ensuring code quality and reliability.
- Utilized Elasticsearch for scalable and real-time search and analytics functionalities in applications.
- Monitored application performance and conducted performance optimization using tools like New Relic and AWS CloudWatch, improving response times and scalability.

Full stack developer
Upwork   **Oct 2014 – Dec 2018**
- Developed smart contracts using Solidity for Ethereum blockchain, implementing token standards such as ERC-20 and ERC-721.
- Designed and developed custom cryptocurrencies and tokens, including initial coin offerings (ICOs) and security token offerings (STOs), adhering to regulatory compliance requirements.
- Utilized Solidity and Yul to develop, deploy, and optimize smart contracts.
- Developed frontend interactions with Ethereum blockchain using web3.js and ethers.js libraries
- Contributed to blockchain network governance and consensus mechanisms, understanding concepts like Proof of Work (PoW) and Proof of Stake (PoS).
- Led the design and implementation of Layer 2 scaling solutions, integrating Zero-Knowledge (ZK) protocols to enhance transaction privacy and efficiency
- Developed and deployed a Staking Rewards smart contract, enabling investors to earn USDC tokens through staking activities and seamless claiming of USC tokens.
- Developed and maintained automated trading bots for executing buy and sell orders on various EVM blockchain platforms, leveraging in-depth knowledge of the Ethereum Virtual Machine (EVM) and smart contract mechanics
- Developed and interfaced with P2P data stores like IPFS (InterPlanetary File System), enabling decentralized data storage and retrieval for enhanced data integrity and accessibility.
- Engineered web applications using Node.js and Django, HTML, CSS, JavaScript, and AJAX for rapid deployment.
- Streamlined development processes by automating 30+ tasks using React, Vue, Node.js, resulting in a 40% improvement in code readability and maintainability.
- Managed servers and cloud infrastructure (AWS, Azure) for blockchain nodes and applications
- Collaborated with cross-functional teams, including software engineers, designers, and product managers, to deliver blockchain solutions that meet client requirements and deadlines.

Projects

Gempad
https://gempad.app/

It is a Multi-Chain Launchpad & Crowdfund - Publish your project or invest in the best DeFi projects.

- Developed Smart contract and backend. For presale, vote, staking part.
- Raised annual revenue around 20M USD at 2023, supported by thousands of active users and hundreds of token pools.
- Launched Version 2.0 at Feb 2024, and launched Solana version at May 2024.

Shardstarter
https://dapp.shardstarter.io

It is a **decentralized launchpad** platform enabling secure and transparent token sales and project launches on the Shardeum network.

- Co-founded the launchpad and served as senior blockchain developer to developing IDO, staking, swap & bridge
- Participated in building a community of thousands of people who bought the Shardstarter crypto token
- Built secure smart contracts for large-scale token presale pools, ensuring optimal performance and safeguarding the interests of thousands of buyers

XDEX

https://testnet.xdex.xyz/

It is a **first DEX** on X1 chain, Solana fork chain.

- Developed smart contracts using Rust and the Anchor framework for core functionalities such as swapping, liquidity provision, staking, and farming.
- Built a fully responsive frontend for the DEX using modern web technologies, providing an intuitive trading, liquidity management, staking, and farming experience.

Apexswap
https://apexswap1.netlify.app/swap

It is a **DEX aggregator** on the Avalanche network, providing access to a diverse selection of tokens and trading pairs.

- Top#1 best trade results better than famous DEXs on Avalanche like Traderjoe, Pangolin, Kyberswap
- Integrates with 16 DEXs to find the most efficient paths for swapping tokens.
- Ensures whale orders with minimal fees, with trade transaction sizes reaching up to $80k USD
- Supports various order types, including Spot orders, limit orders, and TWAP orders.

Quantex
https://www.myquantex.com/

It is an **instant cryptocurrency exchange service** available on multiple networks.

- Offers a seamless swap service for more than 50 cryptocurrencies, ensuring a diverse range of trading options.
- Facilitates high-volume cryptocurrency swaps, with user-offered volumes reaching up to 40,000 USD.
- Provides lightning-fast service, enabling users to receive their target tokens within 5 minutes, ensuring a seamless trading experience.

EDUCATION

Master of Computer Science

University of Toronto   2010-2014

CERTIFICATIONS

Professional Software Engineering Master Certification (PSEMC)
Scrum Master Certified (SMC)