

Vickler Charles

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<https://vickler.eth.limo/>

Software Engineer with 6 years of experience in designing, developing, and deploying web and mobile applications, with a proven track record of leading engineering teams. Skilled in full-stack development, system design, and distributed systems, with additional expertise in blockchain technology, including EVM smart contract development and DApps.

Experience

Tren Finance

Oct 2024 – Present

Full-Stack Web3 Engineer

- Designed, implemented, and deployed secure and gas-optimized smart contracts on (EVM) compatible chains.
- Collaborated with the protocol dev team to develop functionalities for DeFi applications, including lending, staking, and collateral management systems.
- Integrated automated testing tools such as Hardhat, Foundry, and Tenderly for comprehensive contract testing and debugging.
- Integrated The graph for real-time indexing of on-chain data, enabling fast and efficient querying of blockchain events.
- Built reusable React components to manage on-chain actions, such as borrowing, staking, and collateral management, while maintaining performance and responsiveness.
- Integrated wagmi and viem for frontend communication with blockchain smart contract

Emote Care, London, UK

May 2023 – Sep 2024

Lead Software Engineer

- Developed a mental health web application using Typescript with React for the front end and Go with Gin for the backend, ensuring seamless user experience and robust backend functionality.
- Led the architecture and development of a real-time chat and video system using Go and WebSocket, enhancing communication capabilities between clients and therapists.
- Optimized software development life cycle processes by 80% by introducing pull request reviews, code owners, design reviews, QA, and CI/CD practices.
- Deployed and managed cloud infrastructure on Azure using Terraform, Docker, Kubernetes, and PostgreSQL to enhance scalability and streamline application deployment.
- Modeled and diagrammed entity-relationship diagrams (ERDs) for database design, ensuring efficient data organization and retrieval.

Coco Wallet, San Francisco, California, United States

Mar 2020 – Feb 2023

Lead Mobile Engineer

- Led the development of a non-custodial web3 digital wallet utilizing Flutter.
- Developed and deployed smart contracts using Hardhat and Alchemy.
- Integrated web3.js library to communicate with Ethereum local and remote nodes.
- Indexed blockchain data using Node.js and MongoDB to efficiently store and retrieve blockchain information.
- Optimized the distribution process by 70% by creating build variants (Flavors) and introducing CI/CD tools, maximizing the speed of delivering new product features.
- Wrote unit and integration tests using TDD methodology to achieve 30% higher code coverage & enhance product performance.
- Configured Dart plugins to integrate Firebase services, such as Firebase Cloud Messaging, Analytics, Remote Config, and Dynamic Links.

Projects

Push Cola - NFT-Coupon Marketplace

Aug 2024 - Present

Founder & Developer / www.pushcola.com

- Developed and deployed smart contract on ethereum L2 network using Solidity and Hardhat.
- Integrated Node.js to develop a backend that sends transactions to smart contracts, including access control and sponsored user gas fees.
- Indexed blockchain data using The Graph to provide access to decentralized information.
- Implemented a frontend interface using Next.js, leveraging efficient server-side rendering (SSR) to optimize data fetching and enhance the user experience.

Skills

Programming Languages: HTML, CSS, TypeScript, JavaScript, Solidity, Go.

Frontend Development: React, Next.js, Flutter

Backend Development: RESTful APIs, WebSockets, GraphQL, MongoDB, PostgreSQL, Docker, K8s, CI/CD, AWS

Blockchain Development: Web3.js, Ether.js, HardHat, EVM, Smart Contracts, NFT, DeFi Protocols, IPFS

Testing: Playwright, Jest, React Testing Library, Mocha, Chai

Software Architecture: Systems Design, UML, Clean Architecture, SOLID Principles

Soft Skills: Presentation Skills, Strategic Thinking, Critical Thinking, Innovation

Education

EAN University, Bogotá, Colombia

Jan 2017 – Feb 2020

Systems Engineering