THOMAS LIN

Blockchain & AI full stack engineer

I am a Blockchain and AI Full Stack Engineer with 10 years of experience in development and four in Blockchain. I specialize in EVM & Solana protocols, decentralized finance, and NFTs. I have built several products within the space, such as a Crowdfunding Protocol, a 200MM Stablecoin Protocol, an automated on-chain trading engine, and several NFT apps on Ethereum & Solana. I am constantly learning about new projects, best practices, and design patterns in the EVM and blockchain protocol space.

Work Experience

AI & Blockchain developer   Here.News

- Designed and implemented web applications along with **3rd-party** software integrations as a full stack developer for all customer-facing projects.
- Developing **CI/CD** roadmap and implementing to the project
- Built a **Node** server and **Google Cloud functions** to integrate AI apis into web pages
- Generated a user avatar with their photo by **OpenAI** + **LangChain** + **pinecone**
- Management **MongoDB** and **VectorDB** such as **pinecone**
- Designed and built 10 conversational **chatbots** (3 insurance, 4 financial, 3 healthcare)
- Architected and led development of a blockchain platform based on **Tendermint** and **Cosmos SDK**

Blockchain developer   PaidNetwork,OpulenceX,Callisto,DogeBets, Landshare

- Engineered and deployed **tokenization contracts**, empowering users to create customized **ERC20**, **ERC721**, and **ERC1155** tokens with unique features like buyback, **reflection**, **burn, transfer fees**, and a **public mint fee**.
- Convert **Solidity IDO** project into **Solana IDO.**
- Built **NFT martketplace** on **XRP network**.
- Built smart contracts for RWA using **Golang** in **Hyperledger.**
- Developed **Telegram bot** and **Mini App**.
- Developed **on-chain** tools on the **Solana** blockchain. The main tech stack included **Node.js, TypeScript, MongoDB, Web3.js, Solana RPC,** and **Socket.IO.**
- Launched two **NFT** collections on **Solana** using **Candy Machine**. Built non-custodial **staking** with custom **SPL tokens**, developed an NFT raffle platform, and created four **o**n-chain games on Solana.
- Employed **TypeScript, Next.js, Material UI, React-Query,** and code generation techniques to offer an outstanding user experience.
- Built an **Android app** to manage self-sovereign identity using blockchain technology. It uses complex native modules to connect to each user's wallet on the blockchain and was built with **React-Native**, **TypeScript**, **D3.js**, **Hyperledger Aries**, and **Indy SDK**.

Full Stack developer   YamYam, ITavises, DigiMetaverse,

- Maintained and developed upon the entire **Solidity** stack. Managed several smart contract developers to coordinate feature implementation, code reviews, and protocol improvements.
- Applied protocol improvement proposals that were passed by internal governance and integrated into the protocol. These helped us achieve $180MM in total **liquidity** within our protocol at our peak, including an influx of $80MM within two weeks.
- Wrote comprehensive technical documentation for the protocol and full-coverage unit tests using **Hardhat** and **Ethers.js.**
- Implemented large gas optimizations in underlying **DAO** governance, **stablecoin** yield generation, liquidity arbitrage functionalities, and integration of new **LP pools** for the regular coin peg maintenance, such as curve finance and Liquidity Protocol.
- Built several features of a fully-featured decentralized cryptocurrency exchange platform, including front-end trading and portfolio UI, and backend infrastructure.
- Created 10+ full-stack web applications using **Django** (**Python**) for the back end and **React**, **Vue** (**JavaScript**) for the front-end.
- Built a ecommerce platform using **React** and **Gin**.
- Served as a full-stack developer at EY using **Node.js** and **TypeScript** on the back end and **ES7**, **React**, and **Redux** on the UI. They both were my sole responsibility.
- Acted as the PR of YamYam, a catering food ordering and delivery app. Started the company as a startup and ran it for one year. Built the web application platform, got vendors and users/customers onboarded, and completed orders
- Built **a React / Next.js app** that allows groups to coordinate and manage a gift exchange. The app randomly assigns participants, allows setting certain rules and exceptions, and sends emails to participants keeping gifter-giftee assignments secret.

Education

Bachelor's Degree Information Technology   2010 ~ 2014
Hong Kong University of Science and Technology   Clear Water Bay, Hong Kong

GPA: 3.75

Skills

- **Language:** Javascript, Typescript, Python, PHP, Ruby, C/C++ and C#
- **Frameworks:** NodeJS, React, Vue, Angular, Redux,Next, Nuxt, Laravel, CI, Wordpress, Django, Flask, Ruby and Rails, React-Native, phaser, Express, Cosmos sdk, Gin
- **Blockchain:** Solidity, Rust, and Go
- **Tools:** Trello, Git, Docker, Codepen, VS code, Anaconda, Webstorm, PHPstorm
- **Platforms:** Wordpress, WooCommerce, Shopify, Amazon, Amazon EC2, Lamp, Linux