

Liu-Cheng Xu

📍 Hangzhou, China ✉ xuliuchengxlc@gmail.com 🌐 liuchengxu

Career Break

Aug 2023 - Present

- Took a six-month personal break to rest and reflect before resuming work as a freelance blockchain engineer.
- Currently leading the design and implementation of [Subcoin](#), a Rust-based Bitcoin protocol built on the Polkadot-SDK (formerly Substrate) framework.
 - Developed **Decentralized Bitcoin Fast Sync**, enabling trustless state sync for Bitcoin participants without full block verification.

Employment

Lead Protocol Engineer

Oct 2021 – Aug 2023

Subspace Labs

Spearheaded the development of the enshrined rollup solution using Fraud Proof for Subspace Network. Conceptualized and built the initial iteration of Decoupled Execution from the ground up in one year by leveraging the paritytech/cumulus framework, which was a single global execution environment and later transitioned seamlessly to the Domains framework supporting multiple execution environments. The project can be found at [Subspace](#) on GitHub.

Founder & CEO

Jan 2021 – Oct 2021

Canyon Labs

Started Canyon Labs, a permanent decentralized storage project inspired by Arweave, using Proof-of-Access and Proof-of-Stake consensus, implemented in Substrate framework. The project received and successfully delivered two Web3 Foundation grants. You can find the repository at [Canyon](#) on GitHub. Canyon Labs was acquired by Subspace Labs due to regulatory changes in China, leading to the discontinuation of Canyon Network.

Core Developer & Tech Lead

Aug 2018 – Oct 2021

ChainX

Initially joined ChainX, the first Bitcoin bridge in the Polkadot ecosystem, as a core developer, working on DevOps and foundational features like Staking. You can view ChainX's work at [ChainX](#) on GitHub. Played a key role in maintaining the ChainX mainnet and led the migration from Substrate 1.0 to 2.0. Diagnosed and resolved the critical block production issues on the ChainX mainnet. Promoted to Tech Lead after two years, managing the technical team and overseeing project development.

Blockchain Developer

Mar 2017 – Mar 2018

Bytom

Worked as a junior blockchain developer, focusing on Bytom CLI and documentation. You can explore Bytom's development at [Bytom](#) on GitHub.

Education

Shenzhen University

2012 – 2016

Bachelor's Degree in Computer Science

Initially majored in Radio and Television, one year later switched to Computer Science. Specialized in Machine Learning and Data Mining, particularly Recommender Systems.

Technical Skills

Blockchain, Polkadot

- Extensive expertise in blockchain technologies, particularly in [Polkadot-SDK](#) framework.
- Experience in developing decentralized solutions and leading protocol-level projects.

Programming Languages

- Proficient in Rust, familiar with the scripting languages like Python and JavaScript.
- Knowledgeable in Docker for containerization and deployment.

Vim Plugins Development

- A dedicated Vimmer who developed a series of Vim plugins designed to boost developer productivity.
- Some plugins gained a substantial user base and recognition in the Vim community.