Selected Projects (Advisor / Builder)

Advisory & Build Contributions

🔷 **Launch of custom Layer-1 and Layer-2 blockchain networks**

Led architecture, product, engineering, mainnet launch and post-launch operations.

🔷 **Secure key management using Trusted Execution Environments (TEEs)**

Designed a multi-layered security model and hybrid onchain-offchain protocol for decentralized custody and transfer of decryption keys.

🔷 **Threshold-secure cross-chain bridge to Ethereum & BSC**

Led protocol design and committee architecture.

🔷 **Automated DeFi portfolio management protocol**

Designed and built the protocol.

🔷 **Integrity proofs for trustless off-chain service verification**

Conceived the integrity proof model and proof generation pipeline.

🔷 **TEE-based general-purpose messaging and interoperability protocol**

Architected and advised on the solution for secure cross-domain messaging between chains.

🔷 **Decentralized GPU infrastructure for AI and compute workloads**

Advised on product strategy and verifiable compute architecture.

🔷 **Proof-of-User-Action protocol to verify real user behavior**

Conceived and advised on the protocol concept , architecture and engineering.

◆ Verifiable dApps (vApps) as a novel scaling model

Conceived and advised on architecture, product direction, engineering and developer experience.