

BLOCKCHAIN RESEARCH ENGINEER

Seoul, Republic of Korea

□ (+82) 10-8319-1012 | ☑ choi@wonj.me | 🏕 wonj.me | 🖫 wonj1012 | 🛅 wonj | 💆 0xwonj | □ wonj1012

"Trust the Trustless"

Education

Seoul National University

Seoul, Korea

INTEGRATED M.S. AND PH.D. IN COMPUTER SCIENCE (EXPECTED ENROLLMENT)

Sep. 2024 - Expected

- Virtual Machine & Optimization Lab
- Blockchain and cryptography research
- Expected enrollment in September 2024

Yonsei University Seoul, Korea

B.S. CANDIDATE IN COMPUTER SCIENCE

Mar. 2020 - Aug. 2024

• Scholarship Granted by Wemade (₩ 5,000,000)

Skills___

ProgrammingGood: Rust, Solidity, Python Intermediate: C/C++, Go, JavascriptBlockchainEthereum, Bitcoin, XRP Ledger, Solana, Hyperledger FabricResearchBlockchain, Cryptography, Layer 2, Zero-Knowledge Proof, DeFi

Others Git, Linux, Docker, SQL, NoSQL, Kafka

Working Experience _____

Nethermind London, England (Remote)

RESEARCH ENGINEER INTERN

June. 2024 - Present

Feb. 2024 - Present

June. 2023 - Sep. 2023

- Research and development on FRIDA which is DAS using FRI.
- Research on based rollups and preconfirmations.

Seoul National University Virtual Machine & Optimization Lab

Korea

Undergraduate Research Intern

• Working as an intern researching blockchain core.

• Will begin my Integrated Master's and Ph.D studies in September 2024.

XRPL Korea Seoul, Korea

Developer Relations

• Developed DEX platform on XRPL.

- Researched and developed WASM contract on XRPL.
- Made an technical documentation for Korean XRPL developers.
- Technical sessions on several meetups.
- Provided technical support for the XRPL developers.

Web3Mon Korea

SMART CONTRACT & BACKEND DEVELOPER

Feb. 2023 - May. 2023

- Developed smart contracts(programs) using Rust for Solana.
- · Maintained and developed Rust backend server.
- Conducted research on the novel cross-chain implementation using virtual state channel.

JUNE 12, 2024 WONJAE CHOI · CV

Contract in Person

QUANTITATIVE DEVELOPER Oct. 2021 - Jan. 2023

- · Algorithmic Trading:
 - Developed trading algorithms using technical analysis and Al.
 - Handled large and performance-sensitive data pipeline.
- DEX Arbitrage:
 - Conducted research on various MEVs.
 - Developed a cross-DEX, cyclic arbitrage bot using flash swap.
- AUM \$400k

Extracurricular Activity

Decipher Seoul National University, Korea RESEARCHER Sep. 2023 - Present

• A member of Decipher, a blockchain academic club at Seoul National University.

- Technical research and sessions about various topics of blockchain.
- Team Opensource Warriors
 - Contributed to ERC-6900 github and Alchemy team.
 - Conducted research and made a simulation model for LVR minimization method on AMM DEX.
- ZK Research Team
 - Conducted various research on ZKP and rollup architectures.
 - Made PoC level implementation of MSM computing network for ZKP using gRPC.
- Held weekly sessions about "BitVM", "Future Bank" and published the researches on Medium.

Blockchain at Yonsei Yonsei University, Korea

TECH LEAD & BOARD MEMBER Sep. 2022 - Aug. 2023

- Drove research initiatives on emerging topics in blockchain and web3 technologies.
- Prepared and lectured solidity smart contract development for 12 hours course.
- Conducted research on MEV and made arbitrage bot using cyclic arbitrage method on DEX.

Morgorithm (Algorithm Club at Yonsei University)

Yonsei University, Korea

MEMBER

- Mar. 2020 Mar. 2022 • Solved and learned algorithm problems in depth and improved coding skills.
- Participated Morgorithm algorithm camp, studied various in-depth algorithms.

Honors & Awards

INTERNATIONAL

DEFI TRACK 3RD PRIZE

Chainlink Constellation Hackathon

TOP QUALITY PRIZE, BEST USE OF SUBGRAPH

Dec. 2023

- · Crosschain Lending Protocol
- Implemented crosschain functionalities with CCIP(crosschain interoperability protocol).
- · Used DID, graph, oracle services.

Viction Horizon Hackathon

Online Dec. 2023

• Delta Neutral Stablecoin using Perpetual DEX.

- Used Layerzero for crosschain support.
- Used VRC-25 for native gas paymaster usage.
- 4 days full-sponsored tour to Vietnam hosted by Coin98.

XRPL Summer Hackathon | Ripple

Online

GRAND PRIZE

Aug. 2023

- Implemented concentrated liquidity pool.
- Used XRPL hooks which is a Web Assembly based smart contract on XRP Ledger.

Ethereum Global Tokyo Hackathon

Tokyo, Japan

April. 2023

POLYGON TRACK PRIZE

- Federated learning on public blockchain.
- Implemented p2p AI learning protocol.

DOMESTIC

Wonjae Choi · CV JUNE 12, 2024 2

Yonsei Computer Science Graduation Project Exhibition

Yonsei University, Korea

1ST PLACE June. 2023

- · Data NFT marketplace.
- Process the private data batch into anonymous data set and make it as a NFT for easy usage and incentives.
- Built with Hyperledger Fabric.

Projects_

XRPL Swap XRP Ledger

LEAD DEVELOPER June. 2023 - Oct. 2023

- Made a DEX platform on XRPL.
- WASM Smart Contract (XRPL Hooks) & Backend.
- Designed novel tokenomics leveraging native AMM auction on XRPL.
- Pitched on XRPL side event of Korean Blockchain Week(KBW).

Bitcoin Layer 2 Confidentia

RESEARCHER & DEVELOPER

- Conducting research on smart contract layer of Bitcoin.
- Researching layer 2 solution of Bitcoin.

Presentation

Blockchain at Yonsei Regular Session

PRESENTER FOR < REGULAR SESSIONS IN BLOCKCHAIN AT YONSEI>

RESERVER FOR RESOLUTIONS IN DESCRETATIONS I

- Held three 1-hour sessions with below topics.
- Bitcoin and Blockchain
- Ethereum and Smart Contract
- Hyperledger Fabric Architecture

XRP Ledger Korea Dev Meetup

PRESENTER FOR <XRP LEDGER DEV SESSION>

• Introduced XRP Ledger architecture and technical features.

• Held practice session to help developers on-boarding.

Feb. 2024 - Present

Yonsei University, Korea Mar. 2023 - July. 2023

Seoul, Korea

Aug. 2023