

Seoul, Republic of Korea

□ (+82) 10-8319-1012 | **☑** choi@wonj.me | **☆** wonj.me | **□** wonj1012 | **□** wonj | **У** 0xwonj | □ wonj1012

"I study and develop Blockchain"

Education

Seoul National University

Seoul, Korea

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

Sep. 2024 - Expected

- Virtual Machine & Optimization Lab
- Focus on blockchain core research and development.
- Currently participating as an undergraduate research intern.

Yonsei University Seoul, Korea

B.S. CANDIDATE IN COMPUTER SCIENCE

Mar. 2020 - Aug. 2024

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

Skills

Programming Python(very good), Rust, Solidity(good), C/C++, Go(Intermediate), JavaScript/TypeScript(novice)

Blockchain Ethereum, Hyperledger Fabric, Solana, XRP Ledger, Foundry **Research** Blockchain Core, Cryptography, Zero-Knowledge Proof, DeFi

Others Git, Linux, Docker, DB(SQL, Redis), Kafka

Working Experience _____

Seoul National University Virtual Machine & Optimization Lab

Korea

Undergraduate Research Intern

Feb. 2024 - Present

- · 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 June. 2023 - Sep. 2023

- Made an technical documentation for korean XRPL developers.
- Held a one hour developer session about the core of XRPL at the meetup.
- Provided technical support for the XRPL developers.

Web3Mon Korea

SMART CONTRACT & BACKEND DEVELOPER

Feb. 2023 - May. 2023

- Made smart contracts using Rust for Solana.
- · Maintained and developed Rust backend server.
- Conducted research on optimizing virtual state channel for crosschain implementation.

Contract in Person Remote

OUANTITATIVE 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

• 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.

RESEARCHER

- Conducted various research on ZKP and rollup architectures.
- Made PoC level implementation of MSM computing network for ZKP using gRPC.
- Held weekly session about the "Future Bank" and published the research on Medium.

Blockchain at Yonsei Yonsei University, Korea

TECH LEAD & BOARD MEMBER

Sep. 2022 - Aug. 2023

Sep. 2023 - Present

- · Completed two semester activity of Blockchain at Yonsei, a blockchain academic club based on Yonsei University.
- Drove research initiatives on emerging topics in blockchain and web3 technologies.
- Held 2 hours sessions about Solidity smart contracts for 6 weeks as a lecturer.
- As a board member, I have structured the semester curriculum and presented three blockchain sessions for the regular session.
- Conducted research on MEV and made arbitrage bot using cyclic arbitrage method on DEX.

Morgorithm (Algorithm Club at Yonsei University)

Yonsei University, Korea

Mar. 2020 - Mar. 2022 • Solved and learned algorithm problems in depth and improved coding skills.

- Participated Morgorithm algorithm camp, studied various in-depth algorithms.
- · Participated ICPC Sinchon, which is an algorithm competition

Honors & Awards

INTERNATIONAL

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

Dec. 2023 DEFI TRACK 3RD PRIZE

- 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 Aug. 2023

WINNER (1ST PLACE)

- 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

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.



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

Feb. 2024 - Present

Yonsei University, Korea

Mar. 2023 - July. 2023

- 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>

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

XRP Ledger Korea Dev Meetup

Seoul, Korea

Aug. 2023

Presenter for <XRP Ledger Dev Session>

- Introduced XRP Ledger architecture and technical features.
- Held practice session to help developers on-boarding.