

BLOCKCHAIN RESEARCH ENGINEER

Seoul, Republic of Korea

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"In Trustlessness We Trust."

Education

Seoul National University

Seoul, Korea

Sep. 2024 - Present

- M.S/Ph.D. IN ELECTRICAL AND COMPUTER ENGINEERING
- Virtual Machine & Optimization Lab
- · Blockchain research

Yonsei UniversityB.S. IN COMPUTER SCIENCE

Seoul, Korea

Mar. 2020 - Aug. 2024

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

Skills_

Programming Good: Rust, Solidity, Python Intermediate: C/C++, Go, Javascript
Blockchain Ethereum, Bitcoin, Solana, XRP Ledger, Hyperledger Fabric
Blockchain, Cryptography, Layer 2, Zero-Knowledge Proof, MEV
Others Basic Full-Stack, Linux, Git, Docker, RabbitMQ

Working Experience _____

Radius Seoul, Korea

RESEARCH ENGINEER

Oct. 2024 - Present

• Research and engineering for Block Space Network.

Nethermind London, England (Remote)

RESEARCH ENGINEER INTERN

June. 2024 - Sep. 2024

- Cryptography research & engineering
- Research and development on FRIDA(YoDA) which is new DAS scheme using FRI Proof.
- Developed initial build of YoDA client based on Reth.

Seoul National University Virtual Machine & Optimization Lab

Seoul, Korea

Undergraduate Research Intern

Feb. 2024 - Aug. 2024

- Conducted research on Ethereum core and execution clients.
- · Conducted research on ZKP.

XRPL Korea Seoul, Korea

BLOCKCHAIN DEVELOPER & DEVELOPER RELATIONS

June. 2023 - Sep. 2023

- Developed DEX on XRPL.
- Researched and developed WASM contract on XRPL.
- Made an technical documentation for Korean XRPL developers.
- Held several technical sessions on meetups.

Web3Mon Seoul, 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.

NOVEMBER 30, 2024 WONJAE CHOI · CV

Freelance Remote

Out. 2021 - Jan. 2023

- · Algorithmic Trading:
 - Developed trading algorithms using technical analysis and Al.
 - Handled large and performance-sensitive data pipeline.
- Researched and developed MEV bot
- 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.
- Awarded the "Best Member Prize" for the second semester of 2024.
- 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.
- Bitcoin Scalability Team
 - Published 70 pages long Bitcoin Report.
- · Held weekly sessions about "BitVM", "Data Availability", "Future Bank" and published the researches on Medium.

Blockchain at 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

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

Chainlink Constellation Hackathon

Online

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

Defi Track 3rd Prize 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 Aug. 2023

GRAND PRIZE

POLYGON TRACK PRIZE

• 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

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



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 - April. 2024

- Conducting research on building Layer 2 on Bitcoin.
- Researched on verifying ZKP on Bitcoin using BitVM and OP_CAT.

Presentation

Blockchain at Yonsei Regular Session

PRESENTER FOR < REGULAR SESSIONS IN BLOCKCHAIN AT YONSEI>

· Held regular sessions.

• Conducted 6-week Solidity course.

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.

Yonsei University, Korea

Mar. 2023 - July. 2023

Seoul, Korea

Aug. 2023