JINHYUK KIM

Blockchain & Backend Developer

Email: your.email@example.com | GitHub: github.com/yourid | LinkedIn: linkedin.com/in/yourid

SUMMARY

Backend/Blockchain developer who achieved 27x blockchain network performance improvement. Led optimization of Hyperledger Besu-based B2B platform from 25 TPS to 678 TPS by designing a 3-Layer optimization methodology (Java 21 Virtual Threads, Transaction Isolation Pattern, PM2 Cluster Mode). Published research as 1st author at ICBTA 2025 international conference. End-to-end problem solver with expertise from ZKP architecture design to Rust circuit optimization (35s → <1s).

SKILLS

Blockchain: Hyperledger Besu, Hyperledger Fabric, Solidity, Hardhat, Ethers.js, Web3.js, IPFS, DID, Go Chaincode

Backend: Java, Spring Boot, Spring Framework, Node.js, TypeScript, Express, Python, Go, C#

Frontend: React, TypeScript, JavaScript, HTML/CSS, Next.js, Electron

Database: PostgreSQL, MariaDB, MySQL, MS SQL, CouchDB

Infrastructure: Docker, Jenkins, Nginx, AWS (EC2, S3), NCP, CloudFlare, VPN, Linux (Ubuntu, CentOS)

Testing & Monitoring: JMeter, k6, Jest, Swagger, Grafana, Prometheus, Hyperledger Explorer

Research & Security: ZKP (Groth16, Rust), Performance Optimization, TTA Certification, Academic Publishing, Patent Filing

Collaboration: Git, Swagger API Docs, Technical Documentation, Client Communication

EXPERIENCE

CreativeCode Co., Ltd. | Blockchain/Backend Developer

Jun 2025 – Present | Seoul, South Korea

- Achieved 27x performance improvement on Hyperledger Besu (25 TPS → 678 TPS) by designing 3-Layer optimization methodology
- Developed Solidity smart contracts with Proxy pattern (account management, transaction process, ZK/IPFS integration)
- Built backend APIs using Spring Boot/Node.js and blockchain API server with TypeScript/Ethers.js
- Deployed Private IPFS cluster with Swarm Key, established Jenkins CI/CD pipeline
- Led TTA blockchain reliability assessment, 3 patents in progress (1 provisional application filed)

Smart M2M Co., Ltd. | Blockchain/Backend Developer

Feb 2022 – Jun 2023 | Busan, South Korea

- Built 3 Hyperledger Fabric blockchain networks, passed TTA certification (write 400, read 1000 TPS)
- Developed Go-based Fabric ChainCode and TypeScript backend APIs with JWT authentication
- Participated in 3-year national R&D project - Layer2, ZK Rollup, Mina Protocol research
- Successfully commercialized B-SPACE platform, received KIPS Best Paper Award

Suwon University Industry-Academia Cooperation Foundation

TLO Researcher | *Aug 2021 – Feb 2022 | Suwon, South Korea*

- Technology commercialization research, ICT project consulting, patent analysis, industry trend analysis

BNS Soft Co., Ltd. | Android/Backend Developer (Intern)

Jan 2020 – Jun 2020 | Suwon, South Korea

- Developed elderly care service app (Android, DialogFlow, TTS), built Spring-based RESTful APIs

PUBLICATIONS & AWARDS

- ICBTA 2025 (1st Author) - "Breaking the Throughput Barrier: 27-Fold Performance Improvement for Hyperledger Besu Through Service-Layer Optimization"

- KIPS 2025 Fall Conference - 1st Author Paper Publication
- KCI Journal KTCCS Publication (Hanium Best Paper Invitation)
- KIPS Best Paper Award (2022), Undergraduate Paper Competition Grand Prize (2020)
- Hanium Conference Best Paper (2020), Hanium Competition Awards (2019, 2020)
- Ministry of Education - Student Startup Promising Team 300 (2020)

EDUCATION

Suwon University | B.S. in Information and Telecommunication Engineering | Mar 2015 – Feb 2021

CERTIFICATIONS

Engineer Information Processing (국가공인) | SQLD | TOEIC 825