Hieu Nguyen Trung

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EDUCATION

Hanoi University of Science and Technology, Hanoi   **GPA: 3.4/4**
Bachelor of Computer Science   *Sep 2019 - Sep 2023*

KEY SKILLS

Go, Solidity, Javascript, Data Structure and Algorithm, Hardhat, Bash, Git, Vim.

WORK EXPERIENCE

TOVChain   **Hanoi, Vietnam**
Blockchain Engineer   *May 2021 - Present*
- Write, audit, and deploy SmartContracts on Binance Smart Chain (BSC) and Ethereum serve thousands users with lending platform
- Improve system scalability and maintainability.
- Develop and maintain cross-chain
- Research lending models, zero knowledge proof application.
- Optimizing the system for high performance on three networks ETH, BSC, FTM
- Usage technologies: Solidity, Javascript, Hardhat, Golang, Circom, etc.

PROJECTS

Trava Bridge
- Conducted extensive research to thoroughly comprehend the operation of bridge models on the blockchain.
- Designed and implemented bridge service with high performance and low latency.
- Optimize protocol to serve three network.
- Integrate multi-thread, process race conditions and optimize performance.
- Successful deploy the project to both the BSC, ETH and FTM networks, ensuring smooth and successful.

Trava Lending Pool
- Conducted extensive research to thoroughly comprehend the operation of lending models on the blockchain.
- Designed and implemented credit scoring in the protocol.
- Product Owner of Trava Pool Creation service.
- Developed pool management which supports pool owner and user easily managing their pool and their asset.
- Implemented veTrava, incentive program, and integrated veTokenomic into Trava Ecosystem.
- Maintain, audit, and optimize lending pool protocol.

Zk Rollup - Layer 2 on Ethereum
- Researched Zero Knowledge Proof and Rollup technology.
- Designed technical architecture, REST API, and database for zkRollup layer 2.
- Implemented KVDB (key-value database) to reduce calculation and improve retrieval of Merkle tree information.
- Implemented and optimized server which can process 100 transactions per second.
- Led a team to build MVP layer 2.

BkSearch - Search Engine
- Crawled and processed 160 000 records about programming topics.
- Built multi-thread programming to optimize crawl performance.
- Design architecture, rest API, database.
- Develop and optimize the system to serve large search requests.

BkCrypto - Self-Sovereign Identity

- Led a team that achieved the championship prize in the Vietnam Student Informatics Olympiad.
- Communicate and collaborate with another member to implement the product.
- Develop verification service with high performance.

AWARDS AND ACHIEVEMENTS

- Bronze prices in Vietnamese Mathematical Olympiad (VMO)
- VietSeeds Foundation Scholarship
- Top 5 IBM Hackathon
- First prize FOSS Olympiad in Informatics VN

REFERENCES

Vo Anh Hung - Mentor
Senior Software Engineer (Shopee)
- E-mail: anhhung1303@gmail.com

Nguyen Duc Thang - Leader
CTO (TOVChain)
- E-mail: thang@trava.finance