

EDUCATION

University of Engineering and Technology (UET) <i>Bachelor of Information Technology; Cumulative GPA: 3.70/4.0</i>	Hanoi, Vietnam 2021 – Present
Lam Son High School for Gifted Students <i>Information Technology Major</i>	Thanh Hoa, Vietnam 2018 – 2021

SKILLS

Cryptography: Zero-knowledge proof systems, Folding Scheme, Threshold Signature, Asymmetric/Symmetric Encryption.
Technical Skills: Rust, Java, C++, JavaScript, SQL, Docker, Git, Document Writing.
Blockchain: In-depth knowledge of Blockchain, including Bitcoin and Ethereum mechanisms, Consensus Protocols, Starknet, and especially Zero-Knowledge Proofs.
Algorithms: Proficient in Data Structures and Algorithms, Dynamic Programming, Discrete Mathematics, and Probability Statistics.
General Knowledge: Strong understanding of OOP, Functional Programming, Software Development, Computer Networking, and Databases.

EXPERIENCE

ZKP Researcher <i>Self Studying</i>	Dec 2023 – Present Hanoi, Vietnam
<ul style="list-style-type: none">• Cryptography: Researching and writing documentation of ZKP technology, including SNARKs, STARKs, Folding Scheme, Threshold Signature, FHE, etc.• Rust language: Implementing ZKP protocols in Rust for learning purpose: PLONK, KZG, FRI, Nova, etc.	

AWARDS AND ACHIEVEMENTS

Vietnam Rust Hackathon, First Prize <i>CKB ZK Rollup Team</i>	Jan 2024
<ul style="list-style-type: none">• Won first prize in the Vietnam Rust Hackathon, the region's largest gathering of Web3 Rust developers, organized by ZKP Labs, with over 200 attendees.	
UET Campathon, First Prize <i>Adutainers Team</i>	Aug 2023
<ul style="list-style-type: none">• Secured first place in UET Campathon 2023, a hackathon focused on Smart Campus solutions.	
IAI Hackathon, Third Prize <i>Adutainers Team</i>	Aug 2023
<ul style="list-style-type: none">• Achieved third place in the IAI Hackathon 2023, organized by the AI Institute of UET, focused on gamifying education.	
ACM-ICPC, Second Prize <i>Doge Team</i>	Vietnam National Contest 2021
<ul style="list-style-type: none">• Secured second place in the Vietnam National Contest 2021 of ACM-ICPC, the most prestigious competitive programming competition for college students.	
Vietnam Olympiad in Informatics (VOI), Honor Prize <i>Thanh Hoa Team</i>	2021
<ul style="list-style-type: none">• Received the Honor Prize in the Vietnam Olympiad in Informatics 2021, one of the most prestigious annual computer science competitions for high school students.	

SHOWCASE PROJECTS

PLONK CKB | *Rust, Docker, Starknet, Cairo*

Jun 2024

- Developed a Proof of concept Zero-knowledge proof system on CKB chain using PLONK with KZG, aiming for Layer 2 ZK-Rollup and CairoVM integration.
- Implemented the SNARKs proof system.
- Collaborated with 3 friends as a team of 4.

Ethereum IPFS | *Solidity, JavaScript, React, Docker*

March 2024

- Developed a private, distributed storage solution for securely storing data across multiple nodes.
- Utilized Geth to establish a private blockchain and integrated IPFS for decentralized storage.

UETSmartMap | *Javascript, Nodejs, MongoDB, React*

Aug 2023

- Developed a website to assist students in locating places, events, or booking empty spaces at UET.
- Implemented the backend using FastAPI and leveraged Leaflet library to create an interactive map.
- Collaborated with 3 friends as a team of 4.

ACTIVITIES

Teaching Curriculum Co-Author

2022

- Co-authored two competitive programming curriculums for students at Lam Son Gifted High School.

Competitive Programming Instructor

Jul 2022

- Taught data structures and algorithms (DSA) to the Lam Son High School team in preparation for the Vietnam Olympiad in Informatics.