




Huu Thuan Nguyen

BLOCKCHAIN DEVELOPER

I'm proficient with Ethereum, Flow, Bitcoin, and ICON chains.
Specializing on Smart Contract Development, Testing and Integrating into Front-end
for DeFi (Uniswap V3 alike), SocialFi, Assets, Marketplace, etc.

CONTACTS

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EDUCATION

Sep. 2021 – Sep. 2025

University of Science, VNU-HCM
Knowledge Engineering & Information Security
Major GPA (first two yrs.): 3.0/4.0

EXPERTISES

Blockchain Testing Front-end Back-end
Cryptography Applied Mathematics
Machine Learning

TECH STACKS

- Languages** Javascript, Typescript, Solidity, Rust, Cadence (Move), Python, C++, Java, etc.
- Libraries & Frameworks** Hardhat, Web3, Jest, OpenZeppelin, Next, React, Tailwind, Nest, etc.
- Others** DeFi, SocialFi, Assets, Marketplace, Chainlink, Unix, Git Workflow etc.

SKILL SETS

Willingness to learn Multi-tasking Adaptability
Researching
Logical Thinking Concept Visualization

OBJECTIVE

- Short-term** Develop expertise to become a professional employee, continually enhance skills to deliver maximum benefit to the company.
- Long-term** Over the next year, strive to advance skills to become a mid-level developer and a pivotal project member.
Remain receptive to new technologies, consistently assess skills to meet evolving industry demands.

WORK EXPERIENCE

Nov. 2022 – Jun. 2023

Blockchain Developer (Full-time, Hybrid)
LECLE Vietnam JSC.

- Absorbed knowledge about Zero Knowledge, Torus Distributed Key Generation, etc.
- Researched on Uniswap V3
- Developed a Concentrated Liquidity AMM (Uniswap V3 alike) on Flow blockchain

Jun. 2023 – Dec. 2023

Artificial Intelligence Researcher (Full-time, Hybrid)
LECLE Vietnam JSC.

- Researched, implemented and held seminars on Applied Mathematics and ML Algorithms from basic to advanced
- Trained Supervised Learning and Reinforcement Learning models
- Worked on and Fine tuned on Large Language Models

Jun. 2023 – Oct. 2023

Smart Contract Engineer (Part-time, Remote)
Freelance (Mama Exchange)

- Researched on customized Data Structures for OrderBook's Matching System
- Developed a Fully On-chain OrderBook on Flow blockchain
- Carried out Unit Tests and Integration Test to discover errors and optimize usability

CERTIFICATES & AWARDS

Nov. 2022

Blockchain Development Course
DEVERA Academy

- Detail: devera.vn/slides/blockchain-development-20
- Credential: i.imgur.com/ljdyPsb.png

Jan. 2023

Best Social Impact / Public Good Award
ICON Hyperbuild Hackathon

- Detail: iconhyperbuild.devpost.com
- Credential: devpost.com/software/icollection

Sep. 2023

Rootstock 3rd Place Award
Bitcoin Olympics Hackathon

- Detail: btcolympics.devpost.com
- Credential: devpost.com/software/nft-origin

PROJECTS

Jan. 2023 – Jan. 2023

NFT Marketplace – iCollection

(Team size: 1)

- A comprehensive NFT Marketplace built on ICON blockchain. The purchasing mechanism is powered by a Special Auction Algorithm
- Individually built Smart Contracts with Java SCORE and deployed with GoLoop
- Individually built Front-end with React + Tailwind and integrated blockchain with ICON JS SDK

Mar. 2023 – Jun. 2023

Concentrated Liquidity AMM – MamaExchange Swap

(Team size: 3)

- A Concentrated Liquidity AMM built on Flow blockchain. Support different Pool fee for token pairs, high capital efficiency, NFT generation for LPs, etc.
- Individually built Smart Contract with Cadence Language and deployed with Flow CLI
- Individually implemented Unit Tests and Integration Tests with Flow JS Testing, some of the Tests was carefully calculated manually
- Helped to integrate Front-end with Flow Client Library
- Helped to develop Flow Swap SDK (npm package) to simulate the Smart Contract for Front-end's computations
- Understood in detail the source code of Uniswap V3 and its entire mechanism, including Periphery and Core

Jun. 2023 – Oct. 2023

Fully On-chain OrderBook – MamaExchange Market

(Team size: 2)

- A Fully On-chain OrderBook built on Flow blockchain. Support for Spot Trading (including Market Order, Limit Order)
- The matching mechanism is powered by an Octopus Heap for storing Liquidity into a Price Book, and a Segmented Segment Tree for storing Orders into a price index
- Individually built Smart Contract with Cadence Language and deployed with Flow CLI
- Individually implemented Unit Tests and Integration Tests with Flow JS Testing, some of the Tests was carefully calculated manually
- Helped to integrate Front-end with Flow Client Library

Jul. 2023 – Present

Personal Blog – SnowyField

(Team size: 1)

- A server-side rendered Personal Blog. Support creating Posts, Notes, etc.
- Individually built Front-end with Next + Tailwind, deployed with Vercel and integrated database with Prisma + MySQL
- Individually handled Google + GitHub OAuth and several APIs such as EmailOctopus service, Spotify, GitHub, etc.

Sep. 2023 – Sep. 2023

NFT Marketplace – NFTify

(Team size: 3)

- A comprehensive NFT Marketplace and SocialFi built on Bitcoin + RootStock blockchain. Support Walletless (Google OAuth) like Web2 with Distributed Key Generation, trade NFT's Prompt Data, bridge NFTs between two chains, etc.
- Utilized Stable Diffusion to generate NFTs
- Individually built Front-end with React + Tailwind, integrated blockchain with Hardhat + Azure, backend with Nest, database with MongoDB, AI with Stable Diffusion API
- Helped to build Smart Contract with Solidity and deployed with Hardhat

Nov. 2023 – Dec. 2023

NFT Marketplace & SocialFi - NEXT HYPE

(Team size: 3)

- A comprehensive NFT Marketplace and SocialFi built on Avalanche blockchain. Support Walletless (Google OAuth) like Web2 with Distributed Key Generation, purchase by USDC with Chainlink Data Feed, trade NFT's Prompt Data, etc.
- Utilized AI to generate NFT with Stable Diffusion, The Graph to query mostly blockchain, and Chainlink VRF + Automation + Function to hold Events (including Lucky NFT, Mystery NFT, Drop NFT and Exclusive Dynamic NFT)
- Individually built Front-end with React + Tailwind, integrated blockchain with Hardhat, backend with Nest, database with MongoDB, AI with Stable Diffusion API
- Helped to build Smart Contract with Solidity and deployed with Hardhat

Dec. 2023 – Present

Management & Authentication Platform - Distributed Key Management

(Team size: 1)

- A Management & Authentication Platform (Torus alike) built on Ethereum blockchain. The off-chain multi-sigs powered by Threshold Cryptography
- Individually built the entire cryptography mechanism with Rust, integrated backend with Actix-web, database with MongoDB, gRPC with Tonic
- Understood in detail the source code of Torus and its entire mechanism