

I can work in any position with a fast learning speed,

especially I can promote my strengths in research and mathematics at positions related to research, development, optimization and security assurance for algorithms.

# C O N T A C T S

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#### EDUCATION

Sep. 2021 - Present

# 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

#### TECH STACKS

Languages

Typescript, Solidity, Rust, Cadence (Move), Python, C++, Java, etc.

Libraries & Frameworks

Hardhat, Web3, Jest, OpenZeppelin, React, Next, Tailwind, Nest, gRPC, etc.

Others

DeFi, SocialFi, Marketplace, Chainlink, Database, 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.

Over the next year, strive to advance skills to become a mid-level developer and a pivotal project member.

Long-term

Remain receptive to new technologies, consistently assess skills to meet evolving industry demands.

#### WORK EXPERIENCE

Mar. 2024 - Present

# Security Engineer, Fullstack Developer, Smart Contract Engineer Arism Lab (one of two co-founders for the organization)

- Conduct R&D on existing Cryptographic Algorithms and research new ones
- Improve, optimize and ensure security for self-developed Cryptographic Algorithms
- Develop Arism Node, Arism Application, Arism SDK, Arism whitepaper, etc.

Mar. 2024 - Present

# **Smart Contract Engineer**

(Full-time, Remote)

Axiom (work as a freelancer for multiple applications)

- Develop DAO, FT/NFT Distrubution, Affiliate Sales/Rewards and Social Network Smart Contracts on Internet Computer Blockchain
- Undertake testing to identify errors and security vulnerabilities for the Contracts

Jun. 2023 - Oct. 2023

### **Smart Contract Engineer**

(Part-time, Remote)

Mama Exchange (work as a freelancer for an Order Book application)

- Conduct R&D on existing Order Book's Matching System and research new ones
- Customize Low-level Data Structures for the Order Book's Matching System
- Develop a Fully On-chain Order Book on the Flow Blockchain
- Undertake testing to identify errors and security vulnerabilities for the Order Book

Nov. 2022 - Present

#### Blockchain Developer

(Full-time, Hybrid)

LECLE Vietnam JSC. (work at R&D department about Blockchain)

- Acquired knowledge about Zero Knowledge, Torus Distributed Key Generation, etc.
- Make a comprehensive research on Uniswap V3
- Develop a Concentrated Liquidity AMM (Uniswap V3 alike) on Flow Blockchain
- Undertake testing to identify errors and security vulnerabilities for the AMM
- Conducted R&D on Blockchain solutions and Smart Contracts for clients.

#### CERTIFICATES & AWARDS

Sep. 2023

#### Rootstock 3rd Place Award

Bitcoin Olympics Hackathon

• Credential: devpost.com/software/nft-origin

Jan. 2023

# Best Social Impact / Public Good Award

ICON Hyperbuild Hackathon

• Credential: devpost.com/software/icollection

Nov. 2022

# Blockchain Development Course

**DEVERA Academy** 

• Credential: i.imgur.com/ljdyPsb.png

here is the list of the projects I have done within the last 1 year

Mar. 2024 - Present

# Hyper Wallet Protocol - Arism Wallet

(Team size: 2)

- A Hyper Wallet Protocol built on Avalanche Blockchain which utilizes advanced Cryptographic Algorithms to ensure the security and integrity of user's Private Keys
- Protected by a Distrubuted Network. One-click login via third-party platform (OAuth alike). Supports Decentralized Identifier (DID) + Verifiable Credential (VC) + Account Abstraction (AA). Easy recovery with Multi-Factor Authentication (MFA). Provides SDK for developers to utilize and integrate
- Take part in conducting R&D on existing Cryptographic Algorithms. Researching, improving, optimizing and ensuring security for self-developed Cryptographic Algorithms
- Take part in building Back-end part (Arism Node + Arism Metatada) with Nestjs + MongoDB
- Individually build Front-end part (Arism Application + Arism Homepage) with Next + Tailwind
- Individually build the npm package (Arism SDK) and individually write documentation + whitepaper (Arism Whitepaper)

Dec. 2023 - Jan. 2024

## Management & Authentication Platform - Distributed Key Management

(Team size: 1)

- A Management & Authentication Platform (Torus alike) powered by Threshold Cryptography
- Individually build the entire cryptography mechanism with Rust Language + Actix-web + Tonic + MongoDB
- Understand in detail the source code of Torus and its entire mechanism

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, write Articles + organize Events both publicly and exclusively, etc.
- Utilize The Graph to query mostly to Avalanche Blockchain, utilize Chainlink VRF + Automation + Function to organize Events (including Lucky NFT, Mystery NFT, Drop NFT and Exclusive Dynamic NFT)
- Individually build Front-end part in React + Tailwind, integrate blockchain with Hardhat + Azure, integrate Back-end part in Nest + MongoDB
- Take part in building Smart Contract with Solidity + Hardhat

Sep. 2023 - Sep. 2023

#### NFT Marketplace - NFTifv

(Team size: 3)

- A comprehensive NFT Marketplace and SocialFi built on Bitcoin Ordinals + RootStock Blockchain. Support Walletless (Google OAuth) like Web2 with Distributed Key Generation. Support bridge NFTs between two chains, trade NFT's Prompt Data, etc.
- Individually build Front-end part in React + Tailwind, integrate blockchain with Hardhat + Azure, integrate Back-end part in Nest + MongoDB
- Take part in building Smart Contract with Solidity + Hardhat

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 price indices
- Individually build Smart Contract with Cadence Language + Flow CLI
- Individually implement Unit Tests and Integration Tests with Flow JS Testing, some of the Tests was carefully calculated manually
- Take part in integrating Front-end with Flow Client Library

Mar. 2023 - Jun. 2023

# Concentrated Liquididy AMM - MamaExchange Swap

(Team size: 2)

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