



PHẠM ANH TUẤN

Developer

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I'm becoming a full-stack developer.
Always learn from everyone.
Always argue to find the best method.
If you just want to hire a code-only programmer, sorry, that's not me.
I'm not good but I'm always learning to see I'm stupid.

Contact information

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- Hanoi, Vietnam

Skills

• Language

English

• Programming Language

Ruby
Javascript
TypeScript
C#/Java
C/C++ (Long time not use)
Python (Basic)
Go (Basic)

• AI skill

Highly proficient in intensive, day-to-day use of modern AI tools and effectively integrating them into workflows to improve productivity and problem-solving:

Claude, Cursor, MCP, UX-Pilot, Lovable, V0, Figma AI,

• BackEnd

Education

- Specialization: Software Engineering

Hanoi University of Mining and Geology | 9/2014-9/2019

GPA: 2.85/4

Work experience

- Snow exchange – Summary

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- Joining SnowFox Exchange as one of the core engineers, I had the opportunity to help build a full cryptocurrency exchange platform from scratch with a small, highly focused team of four engineers. In just three months, we designed and delivered a production-ready system covering the entire lifecycle of a modern exchange – from low-latency trading engines and order matching to AMM pools, on-chain integrations, and user-facing web and mobile applications.
- My work focused on architecting high-performance, event-driven systems that ensured financial correctness, scalability, and operational reliability under real trading conditions. I designed and implemented the core trading engine using Java and LMAX Disruptor, enabling ultra-low latency order processing and real-time balance updates through an Apache Kafka-based streaming architecture.
- Beyond the core exchange infrastructure, I contributed to building advanced DeFi-style components such as Uniswap V3-inspired liquidity mechanics, AMM pools, and hybrid orderbook systems, which deepened my understanding of market microstructure and on-chain/off-chain system design.
- I also leveraged modern AI tools extensively in my daily workflow to accelerate system design, debugging, testing, and

Ruby on Rails
Java
Nodejs
ASP.net (Basic | Used to do 2 project)
Spring Boot (Basic | Used to do 1 project)

• FrontEnd

- Required
HTML, CSS, JS, JQuery, bootstrap
- CSS is not good
- More
React-JS, React-native
Vuejs (Self learn)

• Database

- Relationship
MySQL, MSSQL
- PostgreSQL, Oracle (Basic)
- Nosql
Mongodb, ElaticSearch
- Key-Value
Redis, Dynamodb,...

• Infra

- Git (Required)
- AWS (Important services)
- Ubuntu (Normal)
- Docker (Basic)
- CI/CD (Basic self learn)

Interests

Self learning
Learn and read about new technology
Reading book
Playing game
Sleeping

documentation, enabling the team to move faster and maintain high engineering quality under tight delivery timelines.

- This experience strengthened my ability to work across system architecture, product design, and business requirements, collaborating closely with product and operations teams to deliver a reliable, scalable, and production-grade crypto exchange in an extremely short timeframe.

• Software Architect & Full-stack Engineer

Snow Exchange | 01/2025-01/2026

Location / Role: Software Architect & Full-stack Engineer (Remote, Full-time)

Company: SnowFox Exchange – Crypto Exchange (CEX) / Fintech

Project: Trading Engine, AMM & Orderbook, Exchange Platform (Build from Scratch)

Team Size: 4 Engineers (core team)

Languages: Java, Ruby, TypeScript, JavaScript

AI: Claude, cursor, gemini, MCP, UX-Pilot, lovable, v0, antigravity,...

Frameworks: Ruby on Rails, Next.js, React Native, Grape

Database & Cache: PostgreSQL, Redis, RocksDB

Messaging / Streaming: Apache Kafka, LMAX Disruptor

Cloud & Infra: AWS (EC2, RDS, MSK, ElastiCache), Docker, CI/CD

Monitoring & Observability: Datadog, New Relic, Chatwoot

What I Did:

Designed and built a full cryptocurrency exchange platform from zero, focusing on ultra-low latency trading systems, financial correctness, and scalable event-driven architecture for production-grade crypto operations.

Key Contributions / Impact:

- Architected a high-performance trading engine using Java + LMAX Disruptor for low-latency order matching and balance processing.
- Built event-driven microservices with Apache Kafka to handle real-time transactions, balances, and system state updates.
- Designed and implemented AMM pools, orderbook matching logic, and Uniswap V3-style liquidity mechanics.
- Developed cross-platform exchange frontend (Next.js + React Native) with real-time WebSocket market data.
- Implemented zero-downtime deployment with Kamal on AWS, reducing infrastructure costs and improving release speed.
- Built internal AI-powered tools and operational systems to support monitoring, support, and exchange management workflows.

Key Skills:

Low-latency Trading Systems, Event-driven Architecture, AMM & Orderbook Design, Distributed Systems Engineering, Financial System Reliability, Full-stack Exchange Development, Production Infrastructure & DevOps

• Remitano / RENEC – Summary

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- Joining Remitano in 2022 marked one of the most intense and transformative phases of my career. From day one, I was trusted to work on RENEC, a new token ecosystem that combined fintech, blockchain, and large-scale system design. It pushed me beyond just “writing code” into thinking like a system architect and product engineer.
- Together with my team, I helped design and deliver core systems that supported over 1 million mining users and more than 500,000 verified accounts during the mainnet transition. From token mining flows, minting systems, balance migration, and weekly unlock mechanisms, to on-chain tools, DApps, and wallet APIs, I was deeply involved in shaping how the RENEC ecosystem operated end-to-end.
- I had the opportunity to design system architecture, lead data migration strategies, and build production-critical features under real-world load, especially during the mainnet launch. These moments taught me how to balance technical correctness, performance, and business urgency in a financial system where reliability truly matters.
- Working closely with Product Managers, Infrastructure, Blockchain, Operations, and Compliance teams gave me a much deeper understanding of how crypto products grow users, manage risk, and operate at scale—not just how they are built.
- At RENEC, as the project became an independent organization, I focused on core APIs, the Carax on-chain wallet, blockchain explorer customization, and multiple Web3 DApps, helping grow an ecosystem serving ~100K–200K users and ~500K active wallets.
- This journey reshaped my mindset. I learned to work relentlessly, think systematically, and take true ownership of the systems I built. I left not because the work was done, but because I was ready to take on bigger problems, broader impact, and products that serve even larger communities.

• Software Engineering

RENEC | 01/2023-12/2024

Location / Role: Software Engineer (Remote, Full-time)

Company: Remitano – Crypto Exchange (CEX) / Fintech

Project: RENEC (Mining, Minting, Mainnet Launch & Maintenance)

Team Size: 3–4 Engineers (cross-functional)

Languages: Ruby, JavaScript, React.js, React Native
Frameworks: Ruby on Rails

Database & Cache: PostgreSQL, Redis

Blockchain: Solana, ETH, BSC, EVM

Cloud & Infra: AWS, CI/CD

Monitoring & Observability: Datadog, New Relic, ScoutAPM, grafana

What I Did:

Designed and delivered core backend, on-chain integration, and

token economics systems for a large-scale Web3 ecosystem within a centralized exchange environment, with a focus on scalability, financial correctness, and production launch reliability.

Key Contributions / Impact:

- Led development of core APIs and the Carax on-chain wallet, enabling secure transaction handling, real-time balance tracking, and seamless integration with RENEC DApps.
- Built multiple Web3 DApps from scratch (token issuance, ecosystem tools, internal operational platforms), supporting both user-facing and internal business workflows.
- Customized and extended a Solana open-source blockchain explorer to ensure accurate on-chain data indexing, transaction visibility, and ecosystem transparency.
- Designed and implemented token minting, issuance, and weekly unlock systems, ensuring consistency between off-chain balances and on-chain transactions.
- Led data migration and balance recalculation for mainnet launch, processing 1M+ mining users and ~500K KYC-verified accounts while filtering fraudulent data.
- Supported production go-live under high-load conditions, executing critical balance updates and system validations to ensure launch readiness.
- Developed on-chain analytics and measurement tools to track blockchain activity, user behavior, and system performance across the RENEC network.
- Collaborated closely with Product Managers, DevOps, Blockchain, and Compliance teams to align technical architecture

Key Skills:

Web3 & Blockchain Architecture (Solana), Token Economics & Financial Systems, Scalable Backend Engineering, API Design for Wallets & DApps, Production Reliability & Mainnet Operations, Cross-functional Collaboration, Observability & Performance Optimization

• Software Engineering

Remitano | 03/2022-12/2024

Location / Role: Software Engineer (Remote, Full-time)

Company: Remitano – Crypto Exchange (CEX) / Fintech

Project: RENEC (Mining, Minting, Mainnet Launch & Maintenance)

Team Size: 3-4 Engineers (cross-functional)

Languages: Ruby, JavaScript, react-js, react-native

Frameworks: Ruby on Rails

Database & Cache: PostgreSQL, Redis

Blockchain: Solana

Cloud & Infra: AWS, CI/CD

Monitoring & Observability: Datadog, New Relic, ScoutAPM

What I Did:

Designed and delivered core backend and blockchain-integrated systems for a large-scale token ecosystem within a centralized exchange environment, focusing on scalability, financial

correctness, and production reliability.

Key Contributions / Impact:

- Designed system architecture and business flows for token mining features (mining rooms, missions, mini-games), contributing to ~15–20% growth in new user acquisition.
- Built and operated the token minting and issuance system, ensuring consistency between off-chain balances and on-chain transactions.
- Led data migration and balance reconciliation strategy for mainnet transition, processing 1M+ mining users and ~500K verified accounts while filtering fraudulent/non-KYC data.
- Designed and implemented a weekly token unlock system to ensure financial accuracy and system scalability.
- Supported mainnet go-live under high-load production conditions, executing balance updates and system validation.
- Developed on-chain tools, blockchain explorer components, and DApp integrations within the RENEC ecosystem.
- Performed 2-level code reviews, onboarded engineers, and collaborated cross-functionally with Product, Infra, Blockchain, Ops, and Compliance/KYC teams.
- Optimized backend performance and system scalability for high-volume transaction and balance processing.

Key Skills:

System Architecture (Fintech/Crypto), Data Migration & Financial Reconciliation, Blockchain Integration, Backend Performance, Optimization, Production Reliability, Cross-team Collaboration

• I leave PIXTA VietNam at 02/2022

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- After 3 months since joining the company, I received the title of unsung hero of the company. It's really great for a newbie like me. Here I have learned a lot of things to develop myself in all aspects and constantly improve myself.
- 2021 is a year full of newness as well as many sadness when many colleagues and teams leave the company.
- Me and my team have done something meaningful for our company
 - Reduce the request time of the search system from 850-550 ms
 - Reduce node of Elastic-search system and save company 2500\$ per month
 - Create separate services to help make the most of the system's resources, thereby helping the system operate more stably during peak hours and have a lot of ES resources that can be divided among many other teams.
 - Release a machine learning model by using available services to build a base mlops (custom) to help the model always be automatically refreshed and not outdated.
 - Optimize seo as well as many other problems of the systemAnd there are so many other amazing technical and non-technical things that I can do and learn.

- We are very grateful to the company and our boss for creating all conditions for us to develop as well as deploy our ideas to the system, learn and improve more.
- Hope to be able to work with everyone again in the future and rest assured I always keep in touch with everyone :D.
- I quit my job simply to find something new, more experiential and to work on bigger problems, products that serve more users.

• Develop BackEnd

PIXTA VIETNAM | 11/2021-02/2022

- **Location:** Developer
- **Project:** Item Flow team
- **Number of members:** 8.
- **Languages:** Ruby, JS, HTML, CSS
- **Framework:** Rails, ReactJS, ElasticSearch, NodeJS, TypeScript
- **Database:** MySQL, MongoDB, Redis, DynamoDB,...
- **Tool:** Git, AWS, Docker, CI/CD, Treasure Data, DataGog, Kibana, New Relic, Rollbar,... etc
- **Unit Test:** Rspec
- **What did I do:** The true work of a developer.
- **Detail:** I was rotated here to be in charge as well as help newcomers to the company.
- + Manage contributors mypage
- + Analyze business and prepare change plan for 2022
- + Share how to work and refresh the team culture to help this team become better.

• Develop BackEnd

PIXTA VIETNAM | 01/2021-11/2021

- **Location:** Developer
- **Project:** Navigation team
- **Number of members:** Start with 7 members to November I'm a last member of the team.
- **Languages:** Ruby, JS, HTML, CSS, Python, Java
- **Framework:** Rails, ReactJS, ElasticSearch, NodeJS, TypeScript
- **Database:** MySQL, MongoDB, Redis, DynamoDB, ..., Bigdata
- **Tool:** Git, AWS, Docker, CI/CD, Treasure Data, DataGog, Kibana, New Relic, Rollbar,... etc
- **Unit Test:** Rspec
- **What did I do:** The true work of a developer.
- **Detail:** Is merged from 2 teams, customer and search team.
- + I still maintain my previous job, besides I get to do new things
- + Get to work more with Elasticsearch
- + Make improvements to search
- + Apply result of Machine learning model to search service (Learning to Rank, mlops, face search)
- + Monitor search searchservice
- + Make microservice support for search service
- + Automatic system
- + Monitor response time of search (P95 < 550ms)
- + Fix bug

- + Use cache to reduce response time then reduce system operating cost, save company money 2.5K usd per month.
- + Keep search working ok
- + ... etc

- **Develop BackEnd**

PIXTA VIETNAM | 05/2020-12/2020

- **Location:** Developer
- **Project:** Customer team
- **Number of members:** 4
- **Languages:** Ruby, JS, HTML, CSS
- **Framework:** Rails, ReactJS, JQuery, NodeJS
- **Database:** MySQL, MongoDB, Redis, DynamoDB,..., Bigdata
- **Tool:** Git, AWS, Docker, CI/CD, Treasure Data, Redash, Kibana, New Relic, Rollbar,... etc
- **Unit Test:** Rspec
- **What did I do:** The true work of a developer.
- **Detail:** This is a large company with more than 2 million users and nearly 100 million items, it is the largest digital photography company in Japan.
 - + Accomplish PO's tasks
 - + Make suggestions for improvement
 - + Planning
 - + Calculation of implementation cost
 - + System monitor (latency, error rate, new error,...)
 - + keep the system running stably
 - + communicate with colleagues, BA to create best practices for the system
 - + Coding and Fix other bugs
 - + Review Code
 - + Design Database
 - + Make unit test
 - + Testing
 - + Work with great colleagues.
 - + ...etc

- **I leave Sun-asterisk (Framgia) in 24/04/2020**

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- After many requests to work more, even I can working on 2 projects at the same time, but it was not answered, so I left the company to find a place that better suited my aspirations.
- To this day I still keep in touch with my former colleagues and always help them out if I can and we always respect each other.
- At the end of 2019 my group gave me "The Best Developer" award, It means nothing to other, But for me it is a recognition of what I have shown.
- At the end of 2019 my last project in Sun (Nichigas) won the project of the year award with the effort of the whole team. To me, this is the company's biggest award.
- I have a few small post for the company and I feel proud to share my knowledge: <https://viblo.asia/u/tuanbacyen>

• Develop RUBY ON RAILS

Sun-asterisk (Framgia) | 08/2019-05/2020

- **Location:** Developer
- **Project:** Website Order gas and electric for japan (Nichigas)
- **Number of members:** 17
- **Languages:** Ruby, JS, HTML, CSS
- **Framework:** Rails, JQuery
- **Database:** MySQL
- **Tool:** Git
- **Unit Test:** Rspec
- **What did I do:** Coding, Review Code, Design Database, write document, testing.
- **Detail:** I work according to the assigned task, the improvements I propose are only 30% approved by the client side. But in return my ability to write code has increased much, I work with many third-party APIs and encounter many funny situations. Also, I learned how to write detailed reports for PO/PMO from system crash investigation tasks..

• Develop RUBY ON RAILS

Sun-asterisk (Framgia) | 06/2019-07/2019

- **Location:** Developer
- **Internal Project:** Booking idle car
- **Number of members:** 4 (1 BE, 3 mobile)
- **Languages:** JS
- **Framework:** Nodejs Feathersjs
- **Database:** MongoDB
- **Tool:** Git
- **Unit Test:** Rspec
- **What did I do:** Coding API, system design.
- **Detail:** when the members of the group have free time we make this project, I appreciate self-study and experience many new technologies. Along with that is improving my ability to communicate and share with team members (3 mobile devs are senniors and I learned many new things from them).

• Develop RUBY ON RAILS

Sun-asterisk (Framgia) | 12/2018-06/2019

- **Location:** Developer
- **Project:** Website sells manga in Japan
- **Number of members:** 9
- **Languages:** Ruby, JS, HTML, CSS
- **Framework:** Rails, JQuery
- **Database:** MySQL
- **Tool:** Git
- **Unit Test:** Rspec
- **What did I do:** Coding, Review Code, Design Database, testing.
- **Detail:** Through this project, I understand more about "multi tenant", working process and improve my coding skills.

• Develop RUBY ON RAILS

Framgia | 09/2018-12/2018

- **Location:** Developer
- **Training project:** Shop sell anything
- **Number of members:** 3
- **Languages:** Ruby, JS, HTML, CSS
- **Framework:** Rails, JQuery
- **Database:** MySQL
- **Tool:** Git
- **Unit Test:** N/A
- **What did I do:** Generate ideas, Make requirement, Transfer task, Coding, Review Code, Design Database, guide team members.
- **Detail:** This is the time when I started as a full-time employee of the company and I had to lead some members to do a small project in the meantime join new project.

• Develop RUBY ON RAILS

Framgia Education | 11/2017-09/2018

- **Location:** Developer
- **Internal project:** Device management
- **Number of members:** 5
- **Languages:** Ruby, JS, HTML, CSS
- **Framework:** JQuery, Rails
- **Database:** MySQL
- **Tool:** Git
- **Unit Test:** Rspec
- **What did I do:** Coding, Review Code, Design Database, Unit test, test, support new member
- **Detail:** Internal project to manage equipment and manage loan and return applications... for Framgia company

• Fresher, Intern and Developer

Many Companies Before | 12/2015-11/2017

- This is a summary of what I did in the past. That was when I was studying while working.
 - + BackEnd ASP.NET
 - + Freelance
 - + DEV android/IOS
 - + odoo
- Detail: <https://www.topcv.vn/xem-cv/BwgHAFgBWwAKBIQDBINRAgdWBF0CUwZRCwUCXQ9c50>