



# NGUYEN NGO THANH PHAT

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## SUMMARY

A Full-Stack Software Engineer with 4 years of experience, specializing in developing web platforms and mobile applications across e-commerce, loyalty systems, and Web3 blockchain. I focus on delivering clean, maintainable code and implementing optimized, scalable system solutions.

I also have experience mentoring new developers, supporting their technical growth, and regularly performing code reviews for fresher and junior engineers to ensure code quality and maintain engineering best practices across the team.

## WORK EXPERIENCE

### Fullstack Engineer, Salescore Co.

Jun 2025 - Present

As a Fullstack Engineer, I contributed to building the entire KpopRoad ecosystem, including the Telegram tap-to-earn mini game, KpopRoad Vote, NFT Collection, KLove Pet, KpopRoad Picasso, Ubello Super App, and TheRowd Funding platform. I was responsible for system architecture design, implementing both frontend and backend features, writing Docker/Docker Compose configurations, and collaborating closely with DevOps for deployment.

### Key Responsibilities & Achievements

- Designed the system architecture for multiple Web3 products within the KpopRoad ecosystem, ensuring scalability, modularity, and maintainability.
- Developed UI/UX for the landing pages and cross-platform mobile applications.
- Integrated third-party services such as Moralis to fetch token information, balances, network metadata, etc., while optimizing request patterns to reduce third-party usage costs.
- Utilized Web3, Ethers.js, and other blockchain libraries to interact with on-chain data and wallet features.
- Implemented backend APIs for core wallet functions such as: Get networks / Add network, get balances, retrieve token information, handle wallet operations
- Built blockchain webhook services to listen for on-chain transaction confirmations and process payment logic.
- Developed real-time notification APIs using Firebase Cloud Messaging (FCM).
- Integrated backend API systems into the Ubello Super App.
- Implemented core wallet features inside Ubello Super App, including:
  - Generate non-custodial wallets and securely store private keys in Keychain/Secure Storage
  - Biometric login with FaceID
  - Import wallets using seed phrase
  - Backup wallet and secure key recovery flow
- Wrote Dockerfile and Docker Compose for all services and worked with DevOps to deploy the ecosystem across environments.

## Fullstack Engineer, TAPTAP

Sep 2024 - Jun 2025

Contributed to the end-to-end development of TAPTAP's Affiliate feature — a large-scale loyalty platform enabling users to earn reward points by scanning receipts from partner merchants (Circle K, GS25, 7-Eleven, restaurants, etc.) and redeem them for vouchers.

### Backend Responsibilities

- Architected and built the backend infrastructure for the Affiliate system using NestJS, ensuring high availability, modularity, and smooth integration with partner merchant systems.
- Designed and optimized MongoDB schemas to efficiently handle millions of transaction records and high-volume receipt-processing workflows.
- Implemented Redis caching and Bull Queue-based asynchronous processing, improving throughput and reducing response time under heavy concurrent load.
- Developed secure, scalable RESTful APIs with full technical documentation, enabling seamless onboarding of external merchant partners into the TAPTAP ecosystem.

### Frontend Responsibilities

- Built responsive, user-centric interfaces for the Affiliate & OTA Configuration dashboard using ReactJS, delivering a smooth CMS management experience.
- Integrated backend APIs into the CMS, ensuring real-time synchronization of merchant configurations, affiliate rules, and reward data across the system.

## Fullstack Engineer, Kicksplanet

April 2022 - Jun 2025

As a Software Engineer at Kicksplanet.vn, I contributed across the full development lifecycle, covering front-end, back-end, infrastructure, and database management. I played a key role in ensuring the platform's stability, security, and performance while building scalable system architecture and seamless user experiences.

### Key Responsibilities & Achievements

- Structured and organized the entire codebase to ensure maintainability, consistency, and scalability.
- Designed and standardized all system APIs following REST architectural principles.
- Implemented secure authentication workflows (token-based).
- Developed core business functions and system modules across the platform.
- Built and scheduled cron jobs to automate system operations (order syncing, data updates, etc.).
- Integrated and deployed the Elasticsearch service to enhance search performance and data querying.
- Utilized AWS services including S3, CloudWatch, and Parameter Store for storage, monitoring, and configuration management.
- Integrated third-party APIs such as Giaohangtietkiem and SpeedSMS to support logistics and SMS/OTP functionalities.
- Developed the administrative dashboard UI using Mantine UI, delivering a clean and efficient management interface.
- Integrated APIs into the admin system using React Query, improving performance through caching and optimized data fetching.
- Leveraged React Context for global state management to maintain a clean and scalable front-end architecture.

**Backend Engineer, Orbit Technology.****Mar 2024 - Sep 2024**

I contributed to building the entire Ton Holding platform — a system that integrates a Telegram mini-game with an investment platform powered by the TON Blockchain. Users can earn points through gameplay, complete tasks, invest, and withdraw TON coins to their personal wallets. I played a key role in system architecture, backend development, and production deployment on AWS.

**Key Responsibilities & Achievements**

- Designed the system architecture using a Modular Monolith approach, ensuring scalability and maintainability.
- Built the entire backend codebase for both the mini-game and the investment platform using NestJS.
- Designed and optimized the MySQL database, including schema structure, indexes, and relationships to improve performance.
- Integrated Telegram API and Ton Keeper wallet, handling user authentication and on-chain transactions.
- Developed a real-time socket service to record user clicks and calculate points dynamically.
- Implemented core feature APIs such as leaderboard, daily check-in, tasks, friend invitations, energy purchases, and point history.
- Developed the TON investment and commission system, including:
  - A binary-tree + linear network structure,
  - Application of Dynamic Programming to replace recursive logic for faster computation,
  - Automated calculation of affiliate bonuses, branch bonuses, and revenue distribution across the binary tree.
- Implemented secure TON withdrawal functionality for users' wallets.
- Wrote Dockerfiles and deployed the entire system on AWS EC2, optimizing configurations for a stable production environment.

**Backend Engineer, Vela Corporation.****Oct 2022 - Dec 2023**

I played a key role in the development of the Vela One system (a full-service commercial operation) by implementing highly efficient 3 back-end services based on modular monolith architecture. The first version has been successfully launched and is ready to use.

**Key Responsibilities & Achievements**

- Structured the code base for management component within the VelaOne ecosystem, I ensured that system-wide information was organized based on the concept of Single Source of Truth.
- Applied and organized multi-tenant SaaS to the Vela One system. In the early stages of the project, all tenants still use the same database.
- Ensured all API URLs conformed to the REST architectural style.

**Frontend Engineer, Terralogic.****Mar 2022 - Oct 2022**

This is an outsourcing project to develop an internal tool for Cisco clients, and I serve as a ReactJS Developer. I am responsible for building the user interface for the system, integrating APIs from Cisco's Back - End team, and handling various logic to generate Python code.

**Key Responsibilities & Achievements**

- Structured the code base for system.
- Develop a user interface for the internal tool system using Ant Design.
- Integration APIs for the internal tool system.
- Utilize Redux to manage the state of the project.

**EDUCATION****2017 - 2021****Bachelor of Degree in Computer Science**

University of Greenwich (Viet Nam)

- Major in Software Engineering.

## ADDITIONAL INFORMATION

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- **Technical Skills:** Javascript, NodeJS, NestJS, ReactJS, NextJS, Typescript.
- **Database:** MySQL, PostgresSQL, MongoDB, Redis.
- **Devops:** AWS EC2, Docker, CI/CD.
- **Languages:** English.