



Hoang Van Duc

I'm a full stack engineer with **3 years** of experience working with **React Native** and **3 years** of experience working with **NestJs**. I have experience with various AWS services. I have experience collaborating with teams to design features. I love finding solutions, discovering holes in projects and love Blockchain.

Awards (Hackthon)

- Unesco Fossasia (Fantatis Hardware Prize)
- AI Grand Challenge (The Third Prize)

<https://startup.vnexpress.net/tin-tuc/y-tuong-moi/chatbot-goi-mon-vao-chung-ket-hackathon-vietnam-ai-grand-challenge-3946923.html>



Work experience

Dopamine

Middle Back-End Software Engineer – *Ho Chi Minh City, Vietnam* – (March 2022 - Now)

- **Developed cross-chain NFT modules:** Built a user NFT copying mechanism across various blockchains to a Fusion chain, utilizing Moralis to monitor BNB transfer fees to project wallets. Automated the NFT generation process through Webhook triggers.
- **Trend research & analysis:** Researched and synthesized insights on move-to-earn trends and features. Presented reports to Product Managers, with 80% of recommendations being implemented.
- **Matchmaking system:** Designed and implemented a scalable match search system for real-time user pairing, accommodating high simultaneous traffic.
- **In-App Purchase (IAP) integration:** Implemented IAP features on Google Play and Apple App Store. Developed event-listening systems using Google Cloud Pub/Sub for Android purchases and Webhooks for iOS.
- **NFT game development:** Developed an NFT-based game ecosystem on the Fusion chain with high player retention.
- **Real-time NFT War game:** Built a WebSocket-driven NFT War game supporting live auction rooms and secure NFT transfers:
 - Automated NFT transfers to the winning player after match completion.
 - Developed secure NFT deposit and withdrawal mechanisms to ensure fair play.
- **Telegram-based payment & notification system:**
 - Deployed a Telegram bot on AWS Lambda to process payments and send automated trading signals from TradingView.
 - Integrated deep links to enable instant access to trading opportunities.
- **Automated trading bot:** Developed a trading bot supporting service package purchases and real-time order execution:
 - Enabled payments through LetExchange.
 - Integrated TradingView signals to automatically open and manage trading orders.
 - Supported stop-loss and take-profit configurations.

- Provided advanced features like real-time support/resistance lines and technical indicators on TradingView.
- **Trading signal and reward system:** Built a periodic trading signal system to reward users for margin trading performance:
 - Tracked and ranked user transaction profitability, distributing Donut tokens to top-performing traders.
 - Developed demo and execution modes to help users practice without risk before participating in real trading.
- **Daily check-in rewards system:** Implemented a gamified check-in and task completion system:
 - Users earned Donut tokens by maintaining a daily check-in streak and completing tasks like social media sharing.
 - Integrated notifications to remind users of pending tasks and check-in requirements.
- **Affiliate marketing system:** Created a referral platform to drive user acquisition through influencers and partners:
 - Enabled partners (e.g., YouTubers) to generate unique referral links for tracking user registrations and transactions.
 - Developed automated commission tracking, calculation, and disbursement based on agreed rates.
 - Provided detailed reports on registrations, transactions, and commissions to ensure transparency and trust.
- **Code reviews and mentoring:** Conducted thorough code reviews to ensure quality, maintainability, and alignment with business requirements. Provided constructive feedback to enhance team productivity and technical growth.

Inapps

Middle Mobile Software Engineer – *Ho Chi Minh City, Vietnam – (October 2020 - March 2022)*

- Contributing source code architecture & CI/CD to the team

- Conducted research & implemented Payment/Payout gateway with Braintree, Paypal, credit card.
- Contribute ideas to solve the problem that react-native does not support and has been accepted by the Team.
- Discovered a loophole in the project's payment process.
 - App use location of 2 users to make 1 payment:
 - Loophole: 2 users just stand close to each other but have not met.
 - My Solution: this user opens the Qr code in the app for the other user to scan.
- Responsible for and manage project builds to Apple store and Google Store.

HDWebSoft

Junior Mobile Software Engineer – *Ho Chi Minh City, Vietnam – (November 2019 - October 2020)*

- Advised leader to transition from javascript to Typescript into our React Native projects
- Conducted research & implemented Payment/Payout gateway with Bank, credit card with Stripe

Ant-Tech

Fresher Mobile & BackEnd Software Engineer – *Ho Chi Minh City, Vietnam – (August 2018 - November 2019)*

- Reduced 40% re-rendering by using React Native Debugger. (Mobile)
- Build module Send SMS with Twilio to verify OTP.(Mobile + BE)
- Build authentication flow (BE)

Skills

Javascript/Typescript

I am proficient in libraries and frameworks like Node, Nest, ReactJs and React Native. Additionally, my proficiency in test automation using Jest has helped to ensure code quality and accelerate the development process.

Rust

I am researching and testing a personal project using Rust, with optimal utilization of server hardware and concurrent task processing. promises to be a promising language.

Database

I have worked with the main database for over 3 years, and have knowledge of Mongo, Redis, PostgreSQL and other related technologies.

Cloud

I am proficient in working with comprehensive services such as ECS, Lambda, S3, IAM, CI/CD, EventBridge, CloudFont, Sqs and Secrets manager. Additionally, I am confident that I can quickly learn and work with any other services as needed. I plan to obtain the AWS DevOps Engineer in the future.

Languages

Vietnamese 🇻🇳

Native speaker

English 🇬🇧

Working knowledge

Education

- Posts and Telecommunications Institute of Technology – Ho Chi Minh City

July 2016 - July 2021