TRAN NGOC HUNG

Backend Developer | Web & Application Security Specialist

👤 Profile

I am a passionate software developer actively pursuing a career in the fintech industry, with 3 years of experience in development and 2 years in web/app security, all focused on fintech projects. My expertise includes building cryptocurrency trading platforms, automated trading bots, and smart contracts, along with conducting security audits and penetration testing for financial web and app services. I am committed to delivering secure, high-performance fintech solutions.

💼 Employment History

Fullstack Developer at Nami Foundation, Ho Chi Minh

March 2023 — Present

Passionate developer with experience in building high-performance systems for cryptocurrency trading platforms, automated trading bots, and blockchain technology applications. Proficient in multiple programming languages, including NodeJS, Golang, Python, Solidity, framework NestJS, ReactJS.

- **Cryptocurrency Trading Platforms:** Development of a cryptocurrency exchange (CEX) featuring spot and swap services (**NodeJS, ReactJS**)
  - The order system includes **market, limit, stop, oco** order types.
  - Develop data feed for trading including market watch, depth book, trades, tradingview,...
  - Content management system
- **Robust matching engine:** developed with **Golang** to bring powerful performance and speed to the order matching system. Benchmark **111698 tps** for VPS server, share CPU Intel 4 core, 8GB memory
- **Automated Trading Solutions:** Develop and integrate trading bots for multiple exchanges, and build market maker algorithms to control asset prices according to market.
- **Web3 and Blockchain:** Implemented on-chain solutions for Ethereum, BSC, and Solana, facilitating blockchain transaction scanning, deposits, and withdrawals.
- **Data Management and Analytics:** Designed and executed marketing data aggregation systems, integrating user journey tracking and transaction statistics to enhance operational insights.
- **Security Expertise:** Conducted web application pentesting and smart contract audits, ensuring robust security practices and defense in depth.

Details

Ho Chi Minh
Vietnam
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Links

Linkedin
Github
Personal website

Skills

Research

NodeJS, Go, Python

Microservice, Distributing system

Web/App Security

Trading platform, fintech business

Group working, English

Languages

Vietnamese

English

Hobbies

Technology, finance and business research, games, art, soccer, swimming

- **Lead a workshop** on the KyberSwap Elastic exploit, sharing valuable insights into smart contract vulnerabilities with peers.

Experienced in deploying **microservices architecture** and utilizing advanced technologies such as **Docker, Kafka, Redis, Nats, and distributed system models** to build scalable and efficient applications. Dedicated to continuous learning and implementing industry best practices in finance development.

Web/App Security Pentester at Techlab Corporation, Ho Chi Minh
February 2021 — February 2023

Security specialist with 2 years of experience in web/mobile app security, focusing on the financial sector.

- **Banking Security**: Testing more 10 web/app banking projects, identifying and mitigating vulnerabilities following **OWASP standards**.
- Experienced in blackbox testing, code auditing, cryptography (AES/RSA).
- Proficient in various security tools: Burp Suite, Acunetix, Frida, Jadx, APKTool, Android Debug Bridge (ADB),...

Developer at Personal projects, Ho Chi Minh
September 2022 — March 2023

Web3 Development & Blockchain:

- **Booking Care Dapp:** Create a decentralized application for booking healthcare services, leveraging blockchain technology to pay for services.
- **Charity DAO App:** Designed a decentralized autonomous organization application to streamline charitable donations and governance through smart contracts.
- **NFT Marketplace:** Developed a platform for minting, buying, and selling non-fungible tokens.

Security Project:

- **Web Vulnerability Scanner:** Engineered a tool to identify and assess security vulnerabilities in web applications, enhancing overall security posture.

🎓 Education

Bachelor of Information Security, FPT University, Ho Chi Minh
September 2018 — September 2022

High-achievement subjects: Programming C, Java, Java OOP, Desktop Java Application, JS/HTML/CSS, Python, Database Systems, Data Structures and Algorithms, Networking, Web Security, Database Security

✪ Courses

Burp Suite Certified Practitioner, PortSwigger

January 2023 — January 2028

Certified Ethical Hacker (CEH), SaigonCTT

January 2021

Data Communications and Network Services, Cisco

January 2020

Web Design for Everybody: Basics of Web Development & Coding, Coursera

October 2020

Python for Everybody, Coursera

February 2021

Startup Entrepreneurship, Coursera

December 2020