

# Thanh Nguyen

[nguyenhuythanh.com](http://nguyenhuythanh.com) | [thanhnguyen2187@gmail.com](mailto:thanhnguyen2187@gmail.com) | (plus eighty four)-392-325-9(sixty six)

## EXPERIENCE

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### Lead Software Engineer (Contractor)

3/2025 – 10/2025

*TRS Project*

*Remote, Hanoi, Vietnam*

- **System Design & Architecture:** Designed a scalable web scraping system supporting 20+ data sources with integrated local/remote LLM processing. Achieved 99%+ success rate bypassing modern anti-bot protections (Cloudflare Turnstile, Google reCAPTCHA) through advanced evasion techniques.
- **Delivery:** Implemented and deployed the above system which increased human data collection and processing efficiency by >100% (before: 8+ data records in 1 hour; after: 20+ data records in 1 hour).

Technologies used: SvelteJS, TypeScript, Restate, PostgreSQL, NixOS.

### Fullstack Software Engineer

7/2023 – 2/2025

*Wombat Exchange*

*Remote, Hongkong SAR*

- **EVM Data Indexing:** Maintained and deployed subgraphs for 3+ EVM chains, which handled 600K+ events. The subgraphs served Wombat Analytics page, which made nearly 250K requests per month. Optimized Wombat Analytics page's loading time from 10+ seconds to 1 second.

Technologies used: TypeScript, AssemblyScript, NextJS, Subgraph.

### Software Engineer, Platform Engineer

10/2021 – 12/2022

*Xantus Network*

*Hanoi, Vietnam*

- **EVM Data Indexing:** Designed, implemented, and deployed Events Synchronization services for 10+ EVM-compatible Smart Contracts on 3+ chains. The services handled 100k+ events, provided on-chain data for 3+ projects (Mones, Gunfire Avax, and Oxalus NFT Aggregator). Optimized Block Time Querying Service's loading time from 15+ seconds to less than 3 seconds.

Technologies used: Golang, TypeScript, go-ethereum, web3js, Apache Kafka.

### Software Engineer

4/2021 – 12/2021

*Teko Vietnam*

*Hanoi, Vietnam*

- **Master Product Data:** Designed, implemented, and deployed data pipelines, data models, and REST API of Product Matching Service which processed 10K+ products.

Technologies used: Python, Golang, FastAPI, SQLAlchemy.

### Software Engineer, System Engineer

6/2019 – 8/2020

*AI Academy Vietnam*

*Hanoi, Vietnam*

- **Data Crawling:** Designed, implemented, and deployed Data Crawling Service for 50+ news sources.

Technologies used: Python, Flask, SQLAlchemy, pika, RabbitMQ, APScheduler.

## EDUCATION & CERTIFICATION

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### Master, Finance Engineering

7/2024 – Present

*WorldQuant University*

*Remote, USA*

### Engineer, Software Engineering

6/2016 – 6/2021

*Le Quy Don Technical University*

*Hanoi, Vietnam*

## SIDE PROJECTS

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**Cryptaa:** Offline-first code snippet manager powered by SvelteJS. Deployed at: [thanhnguyen2187.github.io/cryptaa](https://thanhnguyen2187.github.io/cryptaa).

**CamLisp:** Simple Lisp/Scheme interpreter in OCaml. Source at: [github.com/thanhnguyen2187/camlisp](https://github.com/thanhnguyen2187/camlisp).

**Darkest Savior:** CLI written in Golang to parse DSON, a proprietary data format to JSON. Source at: [github.com/thanhnguyen2187/darkest-savior](https://github.com/thanhnguyen2187/darkest-savior).