Thanh Nguyen

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EXPERIENCE

Lead Software Engineer (Contractor)   3/2025 – 10/2025
TRS Project   *Remote, Hanoi, Vietnam*

- **System Design & Architecture**: Architected 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 the project's MVP then evolved it to a fully functioning system. Increased human data collection and processing efficiency by >100% (before: 8+ data records per hour; after: 20+ data records per 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, SQLModel.

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

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

Cryptaa: Offline-first code snippet manager powered by SvelteJS. Deployed at: thanhnguyen2187.github.io/cryptaa.

CamLisp: Simple Lisp/Scheme interpreter in OCaml. Source at: github.com/thanhnguyen2187/camlisp.

Darkest Savior: Golang CLI for parsing DSON (a proprietary data format) to JSON. Source at: github.com/thanhnguyen2187/darkest-savior.