Thanh Nguyen

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EXPERIENCE

Fullstack Software Engineer   7/2023 – Present
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.

- **EVM Data Analytics**: Implemented 100+ Dune queries and graphs and dashboards, which reduced Marketing Team's manual data calculation time by 90%.

  Technologies used: DuneSQL, Dune.

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.

- **Time Series Prediction**: Designed, implemented, and deployed configurable Prediction Service that can leverage 20+ prediction models.

  Technologies used: Python, pandas, sklearn, statsmodels.

EDUCATION & CERTIFICATION

Le Quy Don Technical University   Engineer, Software Engineering
Hanoi, Vietnam   *6/2016 – 6/2021*

- **GPA**: 3.13
- **Specialized Individuals Informatics Olympiad 2017**: Second Prize
- **Super Cup Informatics Olympiad 2018**: Third Prize

WorldQuant University   Master, Finance Engineering
Remote, USA   *7/2024 – Present*

SIDE PROJECTS

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

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

Phoenix: Declarative machine configuration and dotfiles management with Nix, NixOS, and Home Manager. Source at: github.com/thanhnguyen2187/.phoenix.