Hung Nguyen
Rust | Go Engineer
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Skills

- Languages: Proficient in Rust, Go, Objective-C, Swift
- Blockchain: 4+ years experience in Blockchain development, strong expertise in backend development with Rust | Typescript
- Backend,iOS Development 5+ years: Proficient in Go, Objective-C and Swift

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Working Experience

StaderLabs
Protocol Engineer (Rust, Go, Move)
Jan. 2022 - Present

- **KernelDAO Infrastructure — Rust & Async Network Systems**
    - Designed, optimized, and fine-tuned KernelDAO's indexing infrastructure to support 2M+ daily users and facilitate weekly Eigen and Kernel token distributions to over 1M users.
    - Built high-throughput async data pipelines leveraging Rust (async/await, Tokio) with AWS Lambda and DynamoDB to ensure fault-tolerant, low-latency indexing and distribution at scale.
- **Stader Node Operations & Backend API — Ethereum Infrastructure**
    - Architected and managed the Stader-node system to coordinate multiple Execution and Consensus clients, powering Stader EthX with over $500M TVL.
- **Solana | Terra Liquid Staking Protocol — Rust Smart Contracts**
    - Contributed to the design and operation of Terra's Liquid Staking Protocol, implementing Merkle-tree-based token airdrops and CosmWasm reward utilities in Rust, achieving a peak TVL of $1B.
- **Multichain Staking Services — Rust & Move Ecosystems**

- Engineered liquid staking solutions across Aptos, Sui, and Solana using the Move language and Anchor Framework.
- Developed cross-chain smart contracts and backend components in Rust, optimizing async communication between chains and validators for reliability and scalability.

TrionOne
Protocol Engineer (Rust, Go)
Apr. 2021 - Dec. 2022

High-Performance Asynchronous Proxy System — Rust, Tokio, Hyper

- Developed a high-performance proxy server in Rust, leveraging async/await, Tokio, and Hyper to process thousands of concurrent RPC requests with minimal latency.
- Optimized throughput and responsiveness through efficient asynchronous I/O and a multi-tier caching architecture (Redis → Backblaze → Google Bigtable).
- Achieved up to 20× latency reduction for RPC requests to Solana validators, substantially enhancing network reliability and performance.
- Built complementary components including a Block-cache service, Cloudflare Worker, and Pyth network publisher, collectively accelerating validator query performance by 10–20×.

Zoop Heath-care
Backend Engineer (Rust | Go)
Apr. 2020 - Apr. 2021

Core Backend Development — Golang & Database Optimization

- Developed ~70% of the core application stack across 20+ microservices in Golang, reducing service startup time by up to 90% through efficient module design and concurrency optimization.
- Enhanced database performance and loading speed by 80% by profiling and optimizing MongoDB queries, reducing query latency and improving system scalability.

Carousell
Senior Software Engineer (Go)
Sep. 2018 - Apr. 2020

- **Reduced microservice response time to ~20 ms** by implementing **intelligent caching** and **data replication** strategies across distributed services.

- **Designed and developed Smart Listing and Smart Field APIs** to enable **dynamic, data-driven UI rendering**, improving flexibility and front-end responsiveness.

EastAgile
Senior Software Developer
Jan. 2017 - Sep. 2018

- Reduced object allocation by ~70% by optimizing Observable patterns in opening iOS BBM.

Shutta
Software Developer
Jan. 2013 - Jan. 2017

- Launched Shutta to App Store with Parse backend, serving 1 Million users and 100,000+ downloads.

Education/Training

- Completed 5+ advanced courses on Blockchains.
- Hanoi University of Science and Technology, 2008 - 2011