Prem Phansuriyanon

9/3 Ratchada-Ramintra Road, Khan Na Yao, Bangkok 10230

(+66) 81 101 1730 | pphansuriyanon@gmail.com | artnoi.com | github.com/soyart

EDUCATION

Thammasat University   **Bangkok, Thailand**

Bachelor of Business Administration (Finance, International Program)   Aug 2016 – May 2020

Yonsei International Summer School, Seoul, South Korea (2019)

Bodindecha (Sing Singhaseni) School   **Bangkok, Thailand**

Highschool - Physical Sciences   May 2009 – Apr 2016

KBTG (KSoft): SOFTWARE ENGINEERING

Software Engineer   **Oct 2023 - Present**
- **Go back-end applications** - I write back-end microservices for a new app from KBank
- **Go squad lead and reviewer** - Lead Go development team, because of my advanced Go experience. I also write shared libraries and initialize code wireframe for the team, as well as review code from less experienced team members.
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CLEVERSE CORPORATION: SOFTWARE ENGINEERING

Software Engineer   **Oct 2021 - Oct 2023**
- **Go, Rust, and TypeScript back-end applications** for DEX aggregator swap.arken.finance.
- **Sole data engineer** - I designed data storage, pipelines, and wrote the data pipelines with Apache Beam (Python SDK) for processing blockchain data in real-time. The pipeline is deployed to Google Cloud Dataflow, and can handle both batch and streaming inputs.
- **Sole platform engineer** - my responsibilities revolve around DevOps, and also include creating, installing, and maintaining the VPS servers for DevOps purposes and blockchain nodes (4-5 chains).
- Familiar with traditional back-end engineering concepts - databases (SQL and NoSQL), REST APIs, messaging (Pub/Sub), cryptography, cybersecurity and user authentication.
- Work with blockchains (mostly Ethereum-based) using `go-ethereum` for a DeFi project.
- Work on algorithms of the *best-rate* engine - an algorithm used to find the best trade routes from all the DEXes we have connected to our service.

Back-end Programming Instructor   **Feb 2023 - Aug 2023**
- Design and teach back-end programming (in TypeScript) at Cleverse Academy.

OTHER EXPERIENCE

My Other Software Projects
- Go library for blockchain indexing, complete with test suites and real world examples.
- Minimal and high performance Rust trie (data structure) library based on built-in hash maps.
- General purpose Go libraries for data structures and other "batteries included" features.
- Arch Linux declarative installer in Rust (similar to cloud-init or autoinstall, but single binary)
- Utilities, e.g. AES-256 encryption utility programs - one in Rust, one in Go, and one in Python

Programming languages (sorted by experience): Go, Rust, TypeScript, Python, C, C++

Interests: Computers, Software, Data Structures Cybersecurity, Science, Engineering, Linguistics, History