

Ryabinkov Semyon

Go Developer / DevOps Engineer

- Info - Self taught, unix maniac and slackware & openbsd user.
 - Active `Linux` user since childhood.
 - Open-Source enthusiast.
 - Vim & i3wm user.
 - Stickered thinkpad enjoyer. 📷
- Linked
 - [CV web version](#) - ssleert.github.io/cv
 - [Github](#)
 - [Telegram](#) [preferred]
 - [Email](#) - ssleert@gmail.com

Work experience

- **OOO "PROKSI"** | April 2023 - April 2024, 1 year
 - Developed a document management system for creating **IE** and **reports**. Specifically, generation of `PKI CSR` certificates using a patched `OpenSSL` for Russian GOST standards, as well as their renewal and signing by various users.
 - Stack: `Go` `PHP` `Kafka` `PostgreSQL`
 - Rewrote a legacy monolith from `PHP` to `Go`, improving **performance** and **maintainability**.
 - Implemented a metrics collection system using `Grafana` and `Prometheus` for **enhanced** monitoring and insights.
 - Deployed a cloud and Kubernetes-ready infrastructure using `podman play kube`.
 - **Increased** system **reliability** by developing extensive **integration** tests.

Education

- **DEMHACK 7** hackathon | 29 September 2023 - 1 October 2023
 - Developed a system for **analyzing** `DNS` requests and automatically bypassing website blocks based on open lists of blocked sites from various countries.
 - Implemented **automated selection** of working **proxies** by checking and caching their status.

Pet Projects

- [zfxtop](#)
 - **TUI** utility in `Go` for monitoring **processor**, **ram**, **swap**, **battery percentages**, **temperature**, **disks**. Written from scratch including the entire **TUI** and gathering statistics via `procfs` and a couple of **syscalls**. ([Reddit Post](#))
- [Hywer](#)
 - **World Smallest** (~1.5kb), `JSX` based, Fine Grained Reactive `UI` Library. Super performant & Virtual DOM **Free**. ([Reddit Post](#))
 - Example frontend using it [Lights](#). And testing ground for changes.

- **WaterMelonCoin**
 - Compact **Proof-Of-Work** blockchain written in `C99`. Primarily created for reusable libraries in other projects.
 - **PyBlock** - similar project in `Python` worth remembering.
- **supreme-octopus**
 - Social network with `REST API`, implemented in `Go` and `PostgreSQL`, served by `Nginx` and deployed via `Docker Compose`.
- **ccc**
 - Cache cleaning daemon in `C`. Created to address inefficient memory freeing by older kernels causing heavy `swap` usage and slowdowns in **GTA V** on `Linux`. The game would even crash due to `oom` without `swap`.

Research Projects

- **asyncness**
 - stackless coroutines with `async/await` for `C99`. Mostly used in microcontrollers.
- **Flick**
 - Social network with backend in `C++` using `fastcgi+http3` and `msgpack`. My playground for C++26 and various bleeding edge stack.
- **watch(1)** - `watch(1)` for `OpenBSD`. Because it's not there out of the box.

Skills

- Programming Languages:
 - `Go` `C++` `C` `Python` `PHP`
- Database Management Systems (DBMS):
 - `PostgreSQL (pgx)` `MySQL` `MongoDB`
- DevOps Tools and Technologies:
 - `Swagger` `Docker/Podman` `ci/cd` `k8s`
- Development and Server Tools:
 - `Nginx` `Make` `CMake` `Linux`