Viktor Krapivenskiy
Curriculum Vitae

About

Regarded by many as a computer programmer. Interested in techniques of writing clean and maintainable code, software design, compilers, parallel programming, systems programming. Author of a number of side-projects. Participant of Google Summer of Code—2017.

Skills

Software design · Algorithms and data structures · C · C++ · POSIX API, Linux API · LLVM · Go · Python · Lua · JavaScript · Crystal · POSIX sh, bash.

Experience

2017 · Summer of Code Intern (Google) · Implemented Lua scripting for the strace project (C, Lua).

2018 · Software architect (private company) · Implemented infrastructure, bots and various utilites for analysis of order flow and algorithmic trading on a number of cryptoexchanges (Python, MySQL, Redis); refactored existing code; have developed a web interface for accounting and monitoring the status of trading bots in the real time (Python, Flask, JavaScript); have developed a high-performance log analyzer (C++).

2019 · C++ developer (Offscale) · Developed liboffkv, a uniform interface for distributed key-value storages, in a team of four; implemented C bindings; made a contribution to ppconsul: transactions support (C++).

2019 · Software architect (contract with Sikoba Research) · Implemented support for LLVM in the verifiable computation framework isekai (Crystal). See the following articles for more information:

- Isekai LLVM update #1;
- Isekai LLVM update #2: conditionals and loops;
- Isekai LLVM: final update.

2019 · Software developer (Fantom foundation) · Developed tools for internal use.

2020 · Go developer (Offscale) · Developed goffkv, a rewrite of liboffkv in Go.

Awards

2016	Prizewinner of the All-Russian Olympiad in Informatics, Finals
2016	Gold winner of the Individual Olympiad of School Students in Informatics and Programming, Finals
2017	4th place in "LAToken hackathon": smart contract for tokenization of different kinds of assets
2018	1st place in "Global Changers" hackathon: client support bot system
2018	1st place in "IDACB & CryptoBazar hackathon": chat based on proxy re-encryption protocol
2018	1st place in "Phystech.Genesis" hackathon: mobile application for traveling
2018	3st place in "CryptoBazar Serial Hacking: October": PoC software raytracer using Intel SGX
2018	1st place in "CryptoBazar Serial Hacking: November": LLVM IR interpreter with register-based VM
2018	Mentorship of two teams at "CryptoBazar Serial Hacking: December" that took 2nd—3rd places
2019	1st place in "CryptoBazar Serial Hacking: Grand Finale": network traffic record/replay tool

Projects

2016—present	**luastatus**, a universal status bar content generator
2017	**support for Lua scripting in strace**, Google Summer of Code—2017 project
2018	**angou**, connectors for a number of cryptoexchanges
2019	**spy-tool**, a VK app to search for comments of a specified user
2020	**libdeci**, an arbitrary-precision decimal arithmetic library for C
2020—present	**calx**, a bc-like programming language

References

shdownnine@gmail.com
https://github.com/shdown
https://www.linkedin.com/in/victor-krapivensky-297912146/