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 bots and various utilities for analysis of order flow and algorithmic trading on a number of cryptoexchanges (Python, MySQL, Redis); developed a web interface for accounting and monitoring of the status of trading bots in real time (Python, Flask, JavaScript); developed a log analyzer (C++).
- 2019 · C++ developer (contract with Offscale) · Developed liboffky, 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 (contract with Fantom foundation) · Developed tools for internal use.
- $2020 \cdot \text{Go}$ developer (contract with Offscale) \cdot Developed goffkv (goffkv-consul, goffkv-zk, goffkv-etcd) 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	4 th place in "LAToken hackathon": smart contract for tokenization of different kinds of assets
2018	1 st place in "Global Changers" hackathon: client support bot system
2018	1 st place in "IDACB & CryptoBazar hackathon": chat based on proxy re-encyption protocol
2018	1 st place in "Phystech.Genesis" hackathon: mobile application for traveling
2018	3 st place in "CryptoBazar Serial Hacking: October": PoC software raytracer using Intel SGX
2018	1 st 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 2 nd —3 rd places
2019	1 st place in "CryptoBazar Serial Hacking: Grand Finale": network traffic record/replay tool
2020	2 st place in "VirusHack": automatic detection of deviations in a video stream

PROJECTS

2016—present	luastatus, a universal status bar content generator
2017	support for Lua scripting in strace, Google Summer of Code—2017 project
2020	libdeci, an arbitrary-precision decimal arithmetic library for C
2020—present	calx, a bc-like programming language
2020	"Speeding up decimal multiplication", a research project
2022	"FiWiA", a generator of x86-64 machine code for fixed-width multi-word arithmetics

REFERENCES

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shdownnine@gmail.com https://github.com/shdown https://www.linkedin.com/in/shdownnine in