

# Viktor Krapivenskiy

## Curriculum Vitae

### ABOUT

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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

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

### EXPERIENCE

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

2018 · Software architect (private company) · Implemented bots and various utilites 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 [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 (contract with [Fantom foundation](#)) · Developed tools for internal use.

2020 · Go developer (contract with [Offscale](#)) · Developed [goffkv](#) ([goffkv-consul](#), [goffkv-zk](#), [goffkv-etcd](#)) — a rewrite of [liboffkv](#) in Go.

### AWARDS

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| 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 <sup>th</sup> place in “LAToken hackathon”: smart contract for tokenization of different kinds of assets          |
| 2018 | 1 <sup>st</sup> place in “Global Changers” hackathon: client support bot system                                     |
| 2018 | 1 <sup>st</sup> place in “IDACB & CryptoBazar hackathon”: chat based on proxy re-encryption protocol                |
| 2018 | 1 <sup>st</sup> place in “Phystech.Genesis” hackathon: mobile application for traveling                             |
| 2018 | 3 <sup>rd</sup> place in “CryptoBazar Serial Hacking: October”: PoC software raytracer using Intel SGX              |
| 2018 | 1 <sup>st</sup> 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 <sup>nd</sup> —3 <sup>rd</sup> places |
| 2019 | 1 <sup>st</sup> place in “CryptoBazar Serial Hacking: Grand Finale”: network traffic record/replay tool             |
| 2020 | 2 <sup>nd</sup> place in “VirusHack”: automatic detection of deviations in a video stream                           |

### PROJECTS

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| 2016—present | <a href="#">luastatus</a> , a universal status bar content generator                     |
| 2017         | <a href="#">support for Lua scripting in strace</a> , Google Summer of Code—2017 project |
| 2020         | <a href="#">libdeci</a> , an arbitrary-precision decimal arithmetic library for C        |
| 2020—present | <a href="#">calx</a> , a bc-like programming language                                    |

## REFERENCES

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[shdownnine@gmail.com](mailto:shdownnine@gmail.com)



<https://github.com/shdown>



<https://www.linkedin.com/in/shdownnine>