

# Viktor Krapivenskiy

## Curriculum Vitae

### ABOUT

---

Computer programmer. Interested in techniques of writing clean and maintainable code, software architecture, programming language theory, parallel programming, systems programming, Unix philosophy. Author of a number of side-projects. Participant of Google Summer of Code—2017.

### SKILLS

---

Software design · Algorithms and data structures · C (99, 11) · C++ (03, 11, 14, 17) · Python (2 and 3) · Lua · JavaScript · LLVM · POSIX API, Linux API · Crystal · GNU Make, CMake · 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; 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**.

### 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 <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>st</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

### PROJECTS

---

2016—present	<b>luastatus</b> , a universal status bar content generator
2017	<b>support for Lua scripting in strace</b> , Google Summer of Code—2017 project
2018—present	<b>calx</b> , a bc-like programming language
2018	<b>angou</b> , connectors for a number of cryptoexchanges

## REFERENCES

---



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



<https://github.com/shdown>



<https://www.linkedin.com/in/victor-krapivensky-297912146/>