# Dmitriy Safonov

## Software Developer

## 📇 About

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in dmitriy-safonov

◯ livercat

📍 Vancouver, BC

## ✖ Skills

### Backend — Senior

- Python
- Go
- Rust
- Zookeper
- protobuf
- Distributed Systems
- Microservices

### DevOps — Senior

- Git / Github
- Linux
- Docker
- Ansible
- Reliability
- High Availability

### Frontend — Mid

- HTML / CSS
- Javascript / Typescript
- Angular / React

## ♥ Interests

**Open Source**

**Video Game Design**

**Hiking**

## ⚡ Summary

I'm a detail-oriented software developer who can design, build, test, document, and maintain highly-available and scalable systems. I specialize in backend development and dev-tools, but I also have first-hand experience with QA, front-end dev, DevOps/SRE, and technical writing.

I'm used to working in small versatile teams, so I'm comfortable with wearing multiple hats.

I value cooperation and efficient processes, and I believe that empathy and critical thinking are must-haves for a great engineer.

## 💼 Experience

### Fair Compute | Senior Developer

*2023-03 — 2023-09 (6 months)*

Fair Compute is democratizing access to AI compute for small startups and individual researchers. I helped to bootstrap the project, working on backend infrastructure and server design.

- Designed a server-client protocol and API for the MVP.
- Reduced build times 5x by using efficient Rust compiler settings and CI caching.
- Technologies: Rust, Python, Typescript, EdgeDB, Docker.

### Yandex | Senior Software Developer

*2018-04 — 2022-06 (4 years, 2 months)*

Yandex is one of the largest Russian tech companies which has products ranging from search engine and analytics to ride-sharing and delivery apps. I worked on the internal cloud infrastructure, building a company-wide platform for software deployment and network configuration, inspired by Kubernetes but with our specific requirements in mind.

- Designed and implemented internal company-wide services for managing dynamic DNS configurations and TLS certificates.
- Created a fault-tolerant distributed system with support for rollbacks, managing integration with external platforms.
- Technologies: Python, Go, Javascript, Typescript, Angular, Zookeeper, MongoDB, DNS, TLS, L3/L7 network layers, Linux, containers.

### HP | Software Developer

*2017-09 — 2018-02 (5 months)*

I was hired as a contractor on an internal R&D project for 3D-scanning and computer vision. I developed micro-services in Python and Go, and managed the build and deployment pipelines.

- Designed the MVP architecture.
- Implemented reproducible builds using Docker.
- Technologies: Python, Go, Ansible, AWS, Protobuf, Thrift, Docker, Git.

## Kaspersky Lab | **Software Developer**

*2016-07 — 2017-09 (1 years, 2 months)*

Kaspersky is one of the world's leading antivirus and network security companies. I worked on the fraud prevention service deployed in multiple banks. Initially I was responsible for QA automation and site reliability, and then transitioned into backend development and deployment infrastructure.

- Implemented robust overnight end-to-end regression testing on real mobile devices using Python+Selenium.
- Implemented automated load-testing of critical points of the product.
- Significantly improved performance of multiple web-services by rewriting them from Python2+Twisted to Python3+asyncio.
- Technologies: Python, Kafka, RabbitMQ, Zookeper, Mesos, Marathon, Ansible, Selenium, Git.

## Luxoft | **Senior QA Engineer**

*2015-11 — 2016-07 (8 months)*

Our team worked on developing and certifying firmware for a large microcontroller manufacturer, implementing support for the IEEE 802.15.4 standard (low-rate wireless networks for IoT devices, such as ZigBee/ZHA/RF4CE). I developed the framework that orchestrated running certification tests for multi-device configurations.

- Reduced test runtime 3x by completely redesigning and rewriting the hardware testing framework, eliminating frequent crashes and hangups.
- Technologies: Python, C, ZigBee, UART, SVN.

## Reasoning Mind | **Content Development Team Lead**

*2009-10 — 2015-11 (6 years, 1 months)*

Reasoning Mind was a non-profit organization developing interactive educational software for US schools. I was responsible for managing a team of several dozen people that implemented math curriculum. I also developed and documented software to automate our processes.

- Automated text-to-speech generation for thousands of study materials.
- Integrated Jira with SVN to automate project build and deployment.
- Managed the complete development of multiple math courses, from course design with teachers, to implementation in Flash, and deployment to schools and CDNs.
- Technologies: Python, XSLT, Sphinx, JIRA, SVN.

## 🤝 Volunteer

## Vancouver DataJam 2023 | **Discord Admin**

*2023-06 — 2023-09 (4 months)*

Managed server configuration and programmed bots.

## 🎓 Education

### Moscow Aviation Institute | **Master** | **Information Technology**

*2009-12 — 2014-12 (5 years)*

### Moscow State University | **Bachelor (incomplete)** | **Physics**

*2006-12 — 2009-12 (3 years)*

## 🔖 References

Available upon request