

# Dmitry Saveliev

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## Personal information

**Email:** [d.e.saveliev@gmail.com](mailto:d.e.saveliev@gmail.com)  
**LinkedIn:** <https://www.linkedin.com/in/desaveliev/>  
**Skype:** live:d.e.saveliev  
**Phone:** +49 176 6569 4825  
**Date of birth:** 5th October 1987  
**Address:** Baruther Straße 11, Berlin 10961

## Summary

Lead Software Engineer with 8+ years work experience and excellent troubleshooting skills. Strong technical background with experience of team leading and building enterprise systems from scratch.

My interests include functional programming, machine learning, distributed systems and blockchain technologies.

## Skill highlights

- Team leading: coordination, decomposition of tasks, code review, deploy.
- REST API design (implementation/optimization).
- Scrum methodology.
- Programming languages: Go, Ruby(Rails), Erlang, JavaScript(React, VueJS).
- Databases: PostgreSQL, MongoDB, DynamoDB, Redis, Memcached.
- DevOps: Kubernetes, Prometheus, Chef, Ansible, Docker, Nginx.

## Career

02-2019-present    **Lead software developer**  
[Thirddhash](#)

**Technologies:** C++, Go, JavaScript, Docker/Kubernetes, Prometheus

**Responsibilities:**

- Develop and evolve open source decentralized e-cash system
- Design and develop infrastructure for a blockchain platform (Blockchain as Service)

**Achievements:**

- Implemented decentralized payments system [Unit-e](#) (Proof-of-Stake protocol with on-chain finalization)
- Implemented infrastructure for a blockchain platform (GCE based):
  - Kubernetes (Pods/Services creating, Ingress tuning)
  - Prometheus and custom Ethereum metrics
  - [Ambassador](#) (KeyCloack + OIDC)

02/2018-  
01/2018

**Lead software developer**

[Gett](#)

**Technologies:** Go, Ruby/Rails, PostgreSQL, RabbitMQ, Docker/Kubernetes

**Responsibilities:**

- Develop and evolve SOA ecosystem
- Develop infrastructure and tools for microservices
- Analyze and decompose legacy monolith

**Achievements:**

- Designed and implemented several microservices with Go
- Implemented infrastructure projects for logging and tracing
- Some part of functionality was moved away from the monolith
- Several public talks were given

06/2015-  
07/2017

**Lead software developer**

[MIL](#)

**Technologies:** Ruby/Rails, C99, Go, MongoDB, DynamoDB, RabbitMQ, Chef, Ansible

**Responsibilities:**

- Managing a development team.
- Development and maintenance of system for customer scoring.
- Development and maintenance of production environment.

**Achievements:**

- Implemented new mathematical models for scoring (logistic regression, random forest).
- Integrated consumer credit reporting systems, such as <http://www.equifax.com> and <http://www.nbki.ru>.
- Implemented proxy service for cryptography (written in C99) - signing/verifying and encoding/decoding http traffic.
- Implemented fingerprint service (written in Go) - gathering user browser data via [fingerprintjs2](#) library and providing a REST API for checking users uniqueness.

01/2011-  
06/2015

**Lead software developer**

[Fun-Box](#)

**Technologies:** Ruby/Rails, Erlang, CoffeeScript, PostgreSQL, Redis, RabbitMQ, Capistrano

**Responsibilities:**

- Managing the development team of 5 members.
- Design and development of new projects.
- Development and maintenance of various legacy projects.

**Achievements:**

- Developed [video streaming service](#) for MNO (Mobile network operator) "Megafon" from scratch.
- Developed [mobile mail service](#) for MNO "Megafon" from scratch.
- Developed and maintained [mobile portal](#) for MNO "Megafon" (Integration with social networks and other third-party services).
- Developed high-load banner advertising service for MNO "Megafon" (kind of a simplified version of Google AdSense).
- Developed and maintained various IVR (Interactive voice response) services for MNO "Megafon".

- 08/2010-01/2011     **Software developer**  
[INCOM Real Estate](#)  
**Technologies:** VB, ASP.NET, MS SQL Server  
**Responsibilities:**
- Development and maintenance of main site.
  - Development of landing pages for company products.
- Achievements:**
- Implemented new interfaces for various sections of main site.
  - Created interactive map of Moscow subway.
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- 08/2009-04/2010     **Software developer**  
[ITM corporate group](#)  
**Technologies:** C#, ASP.NET, MS SQL Server  
**Responsibilities:**
- Development of e-commerce CMS "[Advantshop.NET](#)".
  - Customization of CMS for customers needs.
- Achievements:**
- Implemented performance improvements (refactoring within CMS core).
  - Integrated SVN into development workflow.
  - Created a new, full-featured version of the administration panel.
  - Created several customized shops for our customers.

## Public talks

- **Beyond the REST: gRPC / GraphQL approach to microservices**
- **WebAssembly in Go 1.11**

Archive: <https://github.com/gettaxi/go-talks>

## Side projects

### Mass following service for Instagram

<https://github.com/dsaveliev/massliking>

Full stack service for Instagram accounts promotion.

Backend written in Go with Gin web server under the hood.

Implemented behavior of Instagram mobile client along with key methods.

Implemented reasonable REST API for the frontend.

Frontend written in Quasar Framework with VueJS+Vuex+VueRouter stack.

Also, repository contains Ansible playbook for quick deployment.

### Captcha cracking with convolutional neural networks

<https://github.com/dsaveliev/CaptchaSolver>

Simple scripts for TensorFlow which implement two convolutional neural networks.

Repository contains marked data samples for training and testing networks.

### Simple chat server

[https://github.com/dsaveliev/e\\_chat\\_server](https://github.com/dsaveliev/e_chat_server)

Minimalist chat server written in Erlang/OTP.

Implemented reasonable REST API for the client.

The server provides basic methods for working with users and rooms.

## Education

09/2005- Ulyanovsk State Technical University,  
06/2010 **Engineer-mathematician with major in Applied  
mathematics**

## Languages

English (Level B2; fluent reading of technical documentation, technical writing)  
Russian (native)