



# DMITRII KOVANIKOV

## Senior Software Engineer

I'm a passionate engineer and mentor with 8+ years of experience with a focus on Functional Programming. I never stop growing and learning new diverse skills. I'm a maintainer of multiple open-source projects in Haskell, Rust & Kotlin.

### Preferences

Haskell

Rust

OCaml

Backend

Open Source

Functional Programming

PostgreSQL

Mentorship

### CONTACTS

London, UK  
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[github.com/chshersh](https://github.com/chshersh)

### ACHIEVEMENTS

- *Haskell Core Libraries Committee member since 2023*
- *Successfully finished rewrite of 300K LOC Node.js project to Haskell with zero bugs on the first production release and sustained its healthy work*
- *Solved the high-level problem "Paid subscriptions don't work for some people" in a project with multiple constraints: microservices, lack of docs, unknown languages, non-reproducible errors*
- *Created a Haskell course for beginners, officially acknowledged by Haskell.org, with 23K+ views on YouTube and dozens of people finished successfully*
- *Mentored a GSoC student on implementing a backend in Haskell & PostgreSQL*

### EDUCATION

- **2011 – 2015**  
*ITMO University, St. Petersburg*  
Bachelor in Computer Science & Applied Math
- **2015 – 2016**  
*ITMO University, St. Petersburg*  
Mastering in Software Engineering and Service Design

### PROFESSIONAL EXPERIENCE

#### Feed | Senior Software Engineer

London, UK

Apr 2022 – Apr 2023

Haskell CoffeeScript TypeScript Python Go PostgreSQL MongoDB BigQuery  
GCP K8S Helm Docker Prometheus Grafana BugSnag JIRA

Architecting & engineering a scalable backend for a popular dating app  
Key achievements:

- Fixed multi-year problems for paid users which increased the company's revenue and helped the CX team be more efficient
- Created an error-monitoring dashboard using MongoDB, PostgreSQL, BigQuery, and Excel which helped drive product development priorities
- Implemented rate-limiting component free of race conditions and contributed it the upstream open-source dependency

#### Standard Chartered | Quantitative Developer

London, UK

Dec 2019 – Apr 2022

Haskell Dhall SQLite K8S Docker Helm Grafana Confluence JIRA

Implementing a low-latency, high-throughput backend query engine  
Key achievements:

- Helped the company save \$8M/year by leading and finishing successfully the development of the trading regulations component
- Improved dev efficiency for the entire team by implementing content-addressable caching in a custom build tool

#### Holmusk | Software Engineer

Singapore

May 2018 – Nov 2019

Haskell Elm PostgreSQL SQLite MySQL AWS Docker Protocol Buffers

Engineering backend and frontend for the Type 2 Diabetes management platform  
Key achievements:

- Designed & implemented the entire platform for Type 2 Diabetes clinical research
- Successfully redesigned architecture and the implementation of the existing Type 2 Diabetes management platform to improve efficiency and dev velocity

#### Serokell | Software Engineer

St. Petersburg, Russia

May 2016 – May 2018

Haskell RocksDB YouTrack Blockchain

Developing distributed blockchain and cryptocurrency technologies  
Key achievements:

- Developed authorization part of a cryptocurrency to ensure a smooth launch
- Created the company website in 2 days after a consultant spent 3 months on it

### OTHERS

Yandex | Java Intern  
Feb 2016 – May 2016

St. Petersburg, Russia

JetBrains | Kotlin Intern  
Jul 2015 – Sep 2015

St. Petersburg, Russia