

Andrei Sukharev

Software Engineer

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SUMMARY

Experienced software engineer specializing in backend development. Skilled in designing and implementing high-performance, scalable, and fault-tolerant services for diverse industries. Winner of multiple hackathons and a graduate of top programming schools. Collaborative team player with a passion for innovation.

EDUCATION

- National Research University Higher School of Economics** Moscow, Russia
Master's degree in Innovation Studies Sept. 2018 - Aug. 2020
- Irkutsk State University** Irkutsk, Russia
Bachelor's degree in Economics, Information and Mathematical Administration Sept. 2014 - Aug. 2018

EXPERIENCE

- Rakuten** Tokyo, Japan
Software Engineer, Benefit points calculation system Feb. 2022 - Present

Java Micronaut Kafka Cassandra MariaDB CouchBase Consul gRPC

 - Developed a **scalable and fault-tolerant microservice** to calculate benefit points for **millions of users**.
 - Designed a **retry mechanism** for **failed Kafka messages**, **reducing error rates by 20%** and **improving user experience**.
 - Reduced latency by 70%** by adding in-memory and distributed **cache**.
 - Introduced Cassandra to support **millions of data** to achieve the desired **high availability and low latency**.
- Sberbank-Technology** Moscow, Russia
Software Engineer, Source code migration tool Feb. 2021 - Feb. 2022

Java Spring Boot PostgreSQL React TypeScript

 - Built **code initializer** to generate a project with target dependencies from the source.
 - Implemented the **observer pattern** for the git repository updates, **increasing the speed** of code initialization **from 10 to 1 sec**.
 - Made a service **extendable** and **easily maintainable** by designing an **orchestration service** to run Spring Noot starters.
 - Developed MVP frontend app from scratch and brought it to production alone.
- ProTranslating, Inc** Miami, USA (Remote)
Full Stack Developer, A payment system for language service provider May 2019 - Feb. 2021

JavaScript Node.js Vue.js MongoDB

 - Developed **REST API** and designed **Database schemas** for creating invoices
 - Built **client-side** components for generating/showing invoices
 - Improved performance by 10%** by replacing multiple queries with the single MongoDB **aggregation pipeline**.
 - Tested using **end-to-end testing** framework, resulting in a **75% reduction** in the time required to **detect and fix issues**.

PROJECTS

- LADL - the app for improving communication skills through debate games** [Google Play](#) [App Store](#)

TypeScript ReactNative MongoDB

Key Features: a chat in real time, opponents matching, notifications (push, email), authentication and authorization. Built backend server, iOS and Android apps, database configuration, CI/CD myself.

ACHIEVEMENTS

- Hackathons winner**, 2019-2020 - Auth0(US), HackTrain(London), Junction(Helsinki), Huawei(Moscow)
- Programming School 42**, 2021 - graduated in Computer Science
- Software License, 2019 - **Author of Intellectual property** for a computer program
- Arab Innovation Academy Qatar**, 2019 - graduated from the Technical Entrepreneurship Program

PROGRAMMING SKILLS

- Programming Languages**: Java(SpringBoot), JavaScript(Node.js, Vue, React), Python(Flask)
- Technologies**: PostgreSQL, MongoDB, Cassandra, Docker, Kafka
- Languages**: English (fluently), Japanese(basic), German(basic), Russian (native)