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 - June 2020*

- **Irkutsk State University** — Irkutsk, Russia
  Bachelor's degree in Economics, Information and Mathematical Administration — *Sept. 2014 - June 2018*

EXPERIENCE

- **Rakuten** — Tokyo, Japan
  Software Engineer, Cashback 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**.
  - Using CQRS (read/write separation) increased **performance** by 6%, achieved independent **scalability**, improved **maintainability**

- **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 Boot 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)