

Ilya Sibiryakov

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EDUCATION

- Bachelor of Science in Applied Mathematics and Computer Science** Saint-Petersburg, Russia
National Research ITMO University 2020 - Expected 2024
 - Programming:** Algorithms and Data Structures, Web Programming, Java, OS
 - Math:** Discrete Math, Linear Algebra, Calculus, Differential equations[Repository With Assignments](#)

EXPERIENCE

- Tinkoff** Saint-Petersburg, Russia
SWE Intern, SME Invoicing Team Feb. 2022 - May 2022
 - Scala Task Tapir Cats Cats-Effect SQL
 - Implemented new business logic. It was REST API covered by [basic authorization](#) and unit/integration tests.
 - Developed a new client for interacting with another service via REST with authorization and caching access token instead of SOAP requests.

PROJECTS

- Library service**
 - Scala Cats Cats-Effect Http4s Doobie Circe SQL PostgreSQL
 - A small library application that could be used to automate lending books to people. REST API was used as an interface for interaction. Users could search for books by author or title and borrow the book for themselves. There were 3 entities in the project - author, book and user.
- Naive Bayes Classifier**
 - Scala specs2 Probability Theory Big Data
 - Implemented a [Naive Bayes Classifier](#). To determine the emotional color of the text. To train the classifier, I took the data from [this](#) article. I also wrote simple tests to check the functionality.
- Auth service for P2P chat**
 - Spring Java Hibernate PostgreSQL REST JSON
 - We had 3 parts of the application: an authentication service in Spring, a router on web sockets in Golang and a client side, on which all messages in IndexDB were stored locally. My part of work was implementation of authentication service that accepted information in the form of JSON files and returned a response in the same form. It had 1 entity - a user that was stored in PostgreSQL.
- Seam-Carving Telegram**
 - Kotlin TelegramBots REST Algorithms JUnit
 - A telegram bot that implements the [seam-carving](#) algorithm. It has interaction with API telegram. All photos were saved locally on the server, processed and sent back to the client.

COURSES

- Functional Programming Principles in Scala:**
- Functional Program Design in Scala:**
- Parallel programming in Scala:**

Tasks and solutions you can find [here](#).

HONORS AND AWARDS

- Student Huawei's Student Scholarship**
GPA Sep. 2021
Received a scholarship from Huawei for excellent grades in the second and third term.
- Participated in School Mathematics Olympiads**
Math Geometry Dec. 2020 - May 2020
Champion of the All-Russian Math Olympiads.

PROGRAMMING SKILLS

- Languages:** Scala, Java, Kotlin, C++, JS.
- Technologies/Frameworks:** Cats, Monix, Tapir, Cats-Effect, Http4s, sbt, Doobie, SQL, JDBC, Git, Spring Boot.
- Knowledge:** Functional Programming, Algorithms, OOP, Data Structures, Distributed Systems.
- Interests:** Data Analysis, Learning Golang, Big Data.