Ivan Kosolapov

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Russian (Native), English (Intermediate)

EDUCATION

- **ITMO University** — Saint-Petersburg, Russia
  Bachelor in Applied Mathematics and Informatics — *Sep. 2020 – Present*

WORK EXPERIENCE

- **VK** — Saint-Petersburg, Russia
  Java Developer, OK Customers Support Team — *Feb. 2023 - Apr. 20223*
  `Java` `Spring` `Spring MVC` `Cassandra` `Kotlin` `ElasticSearch`
    - Implemented new states for support bot
    - Refactored part of legacy code
    - Fixed many bugs

- **Yandex** — Moscow, Russia
  Java Developer Intern, Kinopoisk Showcase Team — *July 2022 - Nov. 2022*
  `Java` `Spring Boot` `Spring MVC` `Flyway` `SQL` `Docker` `Junit` `Mockito` `GraphQL`
    - Implemented support of new device features configuration format
    - Added flyway migrations to one service
    - Created client for mocking service answer by value in JSON storage
    - Stress tested few services, added preheat to them, modified thread pool
    - Did many refactoring and code quality improvements: changed code for increasing integration tests coverage; added support of new version of domain objects, deleted all legacy code that used old domain objects
    - Created convenient monitoring graphics
    - Fixed many bugs

RECENT PROJECTS

- **Course API**
  `Kotlin` `Ktor` `Koin` `Postgresql` `Redis`

  API for managing course. You can create new courses, add lessons and task to them. You can join to course as student. Teacher can grade task for each student. I wrote this project to take a look on Kotlin and Ktor framework

- **Post cat - posting application**
  `Scala` `Functional Programming` `Cats Effect` `Cats` `Http4s` `Doobie` `Tapir` `ScalaTest` `ScalaMock`

  The main idea of the project is to create an application for making posts on different platforms with telegram bot as user interface. Now implemented: core service for managing posts and groups; telegram bot to make posts to public channels; Public API for getting posts of groups. Also implemented commands DSL based on cats-parse to easily parse telegram messages to bot commands

RELEVANT UNIVERSITY COURSES

- **Java Advanced**
  `Java` `Concurrency` `Reflection` `NIO` `IO` `Collections` `Streams` `Network` `Javadoc`

  Course is focused on advanced features of Java. On this course I completed several small projects including default interface implementation generator, web crawler that downloads web pages in parallel, simple non-blocking UDP server and client that uses Java NIO channels and etc. You can find my solutions on GitHub (link in header)

- **Web Programming**
  `Java` `Spring Boot` `Spring MVC` `Spring Data` `Java Script` `Vue.js` `SQL`

  This course is introduction to web development that shows web technologies in progression: from Java servlets and HTML templates to Spring Boot and single page applications with Vue.js. You can find my solutions on GitHub (link in header)

- **Functional Programming**
  `Functional Programming` `Haskell`

  Course is focused on functional programming concepts and principals. It covers topics from algebraic data types and ends with more advanced constructions like Free Monad and Lens. You can find my solutions on GitHub (link in header)

PROGRAMMING SKILLS

- **Languages**: Java, Scala, Kotlin, Rust, Haskell, Python
- **Frameworks & Tools**: Spring Boot, Spring MVC, Ktor, Cats Effect, SQL, Bash, Flyway, Git, Docker
- **Knowledge**: Algorithms, Data Structures, Parallel Programming, , Functional Programming, Type Theory