

BOBUR ZAKIROV

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👤 OBJECTIVE

Looking for an entry-level position as a Software Engineer in a growth-oriented company that values my analytical and technical skills and provides scope for upgrading my knowledge, I seek a company that will help me contribute to its development while concurrently aiding my personal growth.

🎓 EDUCATION

National Research ITMO University

Bachelor of Software Engineering and Computer Systems

August 2019 – Present

Saint-Petersburg, Russia

- **Courses:** WEB-Programming (Java), Probability and Statistics, Computational Maths, Distributed Storage Systems (PostgreSQL), Information Systems and Databases (PostgreSQL), Algorithms and Data Structures (C++), Operating Systems, Software Testing, High-Performance Systems, Distributed Computing (C), Low-Level Programming (Assembly, C), Cloud Computing, etc.

🏢 EXPERIENCE

GlobalFreelance

Freelance Software Developer

May 2021 – January 2022

Minsk, Belarus (remote)

- Implemented a lexical and syntax analyzer (parser) for a subset of C programming language using the flex/bison library, which produces an abstract syntax tree (AST) of the source code. Also implemented a semantic analyzer for the language.
- Developed an application that simulates a two-way set associative caches with the least recently used (LRU) replacement policy.
- Implemented a multi-threaded merge-sort algorithm in Java, and it works faster in almost all x86-64 based computers than the single-threaded one, since all divided parts of the input list are sorted in parallel threads.
- Implemented the classic producer-consumer pattern with a few additional conditions using POSIX threads.

📁 PROJECTS

Hospital Management System | Java, Spring, PostgreSQL, Liquibase, Docker, Swagger (OpenAPI 3.0)

November, 2022

- Developed an application based on Microservices Architecture using Spring Boot and Spring Cloud.
- Microservices are registered on the Eureka Server, through which they pull configurations from the Config Server, as well as microservices available through the Gateway Service. Used Feign Client to communicate between microservices.
- Microservices are implemented both in the servlet and in the reactive stack using Spring Data R2DBC, JPA and JDBC.

Image Rotator | Assembly, C

December 2021

- Created an application in C that allows to rotate bitmap images by 90 degrees counterclockwise.
- Developed a new module called sepia filter that makes an image with vivid colors look like an old. The module was written in assembly language to improve the performance of the program. Most of graphical editors include a filter like this.

Point-Hit Checker | Java, Spring, Oracle, JavaScript, React

December 2020

- Developed a web-application using Spring Boot and React that checks if a point falls into the given area on the coordinate plane. The interaction between the back-end and front-end levels was organized through the REST API.
- Supported token based authentication with JWT using Spring Security to keep the user logged in and prevent unauthorized access.
- Used Spring Data with Hibernate to access the database managed by Oracle DBMS, where stored all verification results.

Collection Manager | Java, JavaFX, PostgreSQL

April 2020

- Designed a client-server application, the server module executes commands for managing the collection and the client module interactively reads commands, passes them to the server for execution, and displays the results of execution.
- Improved server performance by adding support for multi-threaded request processing and using a database instead of a CSV file.
- Used JavaFX to create a GUI for the client module that supports commands to manipulate the collection. The GUI also supports internationalism and localization for the following languages: English, Spanish (Costa Rica), Russian, and Belarusian.

🏆 ACHIEVEMENTS

- Third degree diploma of winner of Republican Olympiad in Mathematics.

💻 SKILLS

Languages: Java, C, C++, Go, NASM (Assembly), Python, JavaScript, Typescript, HTML, CSS, Bash, SQL, (La)TeX

Frameworks/Libraries: Spring, Liquibase, Swagger, JavaFX, JUnit, Selenium, Selenoid, React

Technologies/Tools: Linux, Git, GitHub, CI/CD, Maven, Docker, Vim, JetBrains Tools, Jupiter, JMeter, PostgreSQL