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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   **August 2019 – Present**
Bachelor of Software Engineering and Computer Systems   *Saint-Petersburg, Russia*

- **Cources:** Object Oriented Programming (Java), WEB-Programming (Java), Probability and Statistics, Computational Maths, Algorithms and Data Structures (C++), Information Systems and Databases (PostgreSQL), Operating Systems, Software Testing, Computer Systems Architecture, Low-Level Programming (Assembly, C), Distributed Storage Systems (PostgreSQL), etc.

💼 EXPERIENCE

GlobalFreelance   **May 2021 – January 2022**
Freelance Software Developer   *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 devided parts of the input list are sorted in parallel threads.
- Implemented the classic producer-consumer pattern with a few additional conditions using POSIX threads.
- Worked on several course projects related to Cryptography, Parallel Programming, and Object Oriented Programming in C++.

📁 PROJECTS

Automated UI Tests | *Java, JUnit, Selenium, Selenoid, Docker*   **May 2022**

- Generated use cases, developed test coverage based on them, and conducted functional testing of the website interface.
- Utilized Selenide framework (wrapper for Selenium WebDriver) to write an automated UI tests and Selenoid (Selenium Grid alternative) to run different versions of browsers in docker containers. Also used the Allure framework to generate test reports.

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 console application that implements interactive management of a collection of objects stored in a CSV file.
- Devided the program into client and server modules. 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.

💻 SKILLS

Languages:	Java, C, C++, Go, NASM (Assembly), Python, PHP, JavaScript, TypeScript, HTML, CSS, Bash, SQL, (La)TeX
Frameworks/Libraries:	Spring Boot, JavaFX, JUnit5, Selenium, Selenoid, Numpy, Pandas, React, Bootstrap, JQuery
Technologies/Tools:	Linux, Git, GitHub, Docker, Vim, VS Code, JetBrains Tools, Jupiter, JMeter, PostgreSQL, Oracle