

Vasily Kuporosov

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EDUCATION

Higher School of Economics Master's degree in Programming and Data Analysis	2020 - present
Higher School of Economics Bachelor's degree in Mathematics and Computer Science (years 3-4) GPA 9.27/10.0	2018 - 2020
Saint Petersburg Academic University Bachelor's degree in Mathematics and Computer Science (years 1-2)	2016 - 2018

WORK EXPERIENCE

JetBrains – Software developer in CoSpaces project Implemented a triangulation module for complex polygons with holes; Created a servlet that converts a text into Bézier curves according to a specified font; Implemented a 3D-text builder that takes a text, triangulates its curves and extrudes them to create a 3D item; 3D text is now used in CoSpaces Edu – a web app which allows creating 3D spaces for educational purposes. Technologies used: Kotlin for server side, Java for client-side, TeaVM to compile Java into JavaScript.	Feb 2018 - present
Yandex QA automation internship Implemented ~200 test cases, improved testing system by optimizing its components (e.g. parallel message sending); Used Selenium WebDriver, Selenium Maven project for java and JUnit testing framework.	Jul-Oct 2018

PROJECTS

Java + RISC-V (team project, bachelor's thesis) github.com/azul-research/jdk-riscv OpenJDK port for RISC-V processor architecture. The goal of the project is to implement a platform-specific part of OpenJDK so that it can run on RISC-V processors. Implemented all arithmetic bytecode instructions and several math intrinsic functions in bytecode interpreter; Contributed in some other parts of the interpreter.	Oct 2019 - June 2020
Testopithecus (team project) github.com/smart-testing/testopithecus A research on how to make automated testing smarter. The prototype has been adopted by the Yandex.mail team. Created an infrastructure for benchmarking crawling and crash-seeking algorithms on Android, iOS and web; Invented and implemented various enhancements for automated UI interaction; Implemented a tool that reconstructs an application usage scenario based on debug logging output.	Mar-May 2019
Automated image dataset segmentation tool github.com/vasyoid/segmentation An algorithm that automatically segments a dataset of images to an object and background. A user roughly marks an object and background on the first image, after that the precise segmentation of the image is built and then spread to the whole dataset.	Feb-May 2018

KNOWLEDGE AND SKILLS

<i>Used in projects</i>	C, C++, Java, Kotlin, Android SDK, Python, Algorithms and Data Structures.
<i>Classroom experience</i>	Unity, Scala, L ^A T _E X, Docker, Git.