

Vasily Kuporoso

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EDUCATION

Higher School of Economics

2020 - present

Master's degree in Mathematics and Computer Science

Higher School of Economics

2018 - 2020

Bachelor's degree in Mathematics and Computer Science (years 3-4) **GPA 9.27/10.0**

Saint Petersburg Academic University

2016 - 2018

Bachelor's degree in Mathematics and Computer Science (years 1-2)

WORK EXPERIENCE

JetBrains – Software developer in CoSpaces project

Feb 2018 - present

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.

Yandex software development internship

Jul-Oct 2018

Designed an automated testing system for GUI. Used Selenium WebDriver, Selenium Maven project for java and JUnit testing framework. Implemented ~200 test cases, improved testing system by optimizing its components and implementing new features.

PROJECTS

Java + RISC-V (team project, bachelor's thesis)

Oct 2019 - June 2020

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. Also contributed in some other parts of the interpreter.

Testopithecus (team project)

Mar-May 2019

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.

Automated image dataset segmentation tool

Feb-May 2018

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.

KNOWLEDGE AND SKILLS

Used in projects

C, C++, Java, Kotlin, Algorithms and Data Structures.

Classroom experience

Python, Haskell, Android SDK, L^AT_EX, Git.