mail@gskorokhod.com Georgii Skorokhod GitHub: @gskorokhod
+44 7586 882 668 Computer Science student (BSc) Linkedin: link

Education

Moscow, RU **Engineering School №1580** **2017 – 2022**

High School – Physics and Mathematics profile Grade: 5.0 / 5.0

Russian State Exam scores:

- Mathematics 82 / 100
- Informatics and ICT 92 / 100
- English 99 / 100

St Andrews, UK **University of St Andrews** **2022 – 2026**

International Year One – Science 2022-2023
Modules taken:

- **CS1002** (Grade: 18 / 20) and **CS1003** (Grade: 18.7 / 20)
  Basics of Java programming, OOP, I/O, working with XML and JSON files, SQL Databases, parallel programming with Apache Spark, the UNIX command line.
- **Math A** and **Math B** (Grade: 17.7 / 20)
  Fundamentals of calculus (integration, differentiation) and linear algebra

Computer Science (BSc) 2023 – 2026

Modules taken:

- **CS 2001** (Foundations of Computation) – Grade: 17.3 / 20
  Finite State Automata and Context-Free Grammars. Data structures in Java. Time complexity and Big-O Notation. Unit testing with JUnit
- **CS 2003** (Internet and The Web) – Grade: 16.8 / 20
  Network architecture, the OSI model, TCP/IP, working with Sockets in Java, the HTTP protocol, DNS, implementing a REST API server and client in JavaScript, basics of HTML + CSS + JS, frontend web development with React

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Extra-Curricular activities

Moscow Yandex.Lyceum 2019 – 2021

Yandex.Lyceum project-based Python programming course for high school students, hosted by the Russian tech company Yandex.
As part of this course, I have learned the fundamentals of Python software development, including OOP, working with databases, creating a web server with Flask, GUI development with Qt5, and 2D game development with pygame.

Lipetsk Summer CS school by the HSE 2021

A 2-week summer computer science course organized by the Higher School of Economics that focused on algorithms, data structures and solving Leetcode-style problems in C++. As part of this course, I have learned the fundamentals of graph theory, data structures in C++, and pathfinding algorithms (Dijkstra and A*).

St Andrews Fast Start Web Development 2023

A 2-month course consisting of 8 lectures on web development, JavaScript and the React framework, as well as a final project.

St Andrews Constraints Programming VIP 2023-ongoing

As part of this Vertically Integrated Project, I have worked on the Conjure constraints modelling tool that is developed by the constraints programming research group at the University of St Andrews. Specifically, I have focused on the conjure-oxide project – rewriting the original Conjure + Saville Row stack into Rust.

As part of this project, we have worked on compiling the high-level constraints modelling language (Essence) into low-level representations that are required by specific constraint solvers (e.g. logical expressions in conjunctive normal form for SAT solvers).

I have also developed some Python internal tools and continuous integration workflows on GitHub to automate testing and deployment tasks for my team.

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I have collaborated with a large team, consisting of undergraduate and postgraduate students, as well as members of the research group. As part of this project, I have learned the Rust programming language, the basics of compilation, and algorithms for solving boolean satisfiability problems.
I have also gained the valuable experience of working on a large-scale software project using the Git version control system and the AGILE software development methodology.

Projects

Automated greenhouse with Arduino 2019

A team project with 3 of my classmates to develop a system for automatically monitoring the climate inside a small greenhouse and manage lights, ventilation and water valves. The UI included a mobile app to manage the greenhouse remotely and a text menu on an LCD screen.

As part of the team, I was responsible for designing the electronics and programming the Arduino microcontroller.

The project won a bronze medal at the IEYI-2019 in Jakarta

Skills practiced:

- Programming in a C-like language
- Hardware, electronics and microcontrollers
- Communication skills, teamwork and delivering presentations

Full Stack E-Commerce web app 2021

A web app for a shop that allows users to register, add items to cart and place orders. It includes an administrator panel for adding/removing goods, a simple full text search system, a SQLite database and a REST API.

Project information: https://github.com/gskorokhod/shop-website-project

Skills practiced:

- Backend web development with Python
- Using the git version control system and GitHub repositories
- API development
- SQL databases

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Skills

- Python (proficient)
- Java (intermediate)
- Rust (intermediate)
- JS and TypeScript (intermediate)
- C and C++ (beginner)
- SQL databases
- Algorithms & Data structures
- Networking
- Basics of theoretical CS
- React web development
- REST and GraphQL API's
- Basics of algebra & calculus
- Full Stack web development
- Web scraping and parsers
- Experience with the UNIX command line
- Experience with Git
- Experience with AGILE development
- Good communication skills
- Making and delivering presentations

Languages

- English — Full professional proficiency — IELTS 8.0 (C1)
- Russian — Native speaker — -
- German — Beginner — -

Contacts

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