

Polina Guseva | CV

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Education

National Research University "Higher School of Economics"

Moscow, Russia

Bachelor of Science in Applied Mathematics and Computer Science. 8.79/10 GPA

2018 – 2022

Focus on Machine Learning and Applications.

Relevant coursework:

- Algorithms and data structures
- Computer architecture and operating systems
- Distributed systems
- Applied statistics
- Probability theory
- Statistical learning theory

Work experience

Yandex

Moscow, Russia

Software Engineering Intern

Jul – Oct 2019

- Built REST API for signing and publishing iOS applications (about 200 users across company)
- Implemented automatic app signing with the correct company certificate, bulk uploading to TestFlight, and publishing of fully-tested versions using Django, Flask, and Ruby

National Research University "Higher School of Economics"

Moscow, Russia

Teaching assistant for the "Discrete mathematics" courses

Oct 2019 – Mar 2020

- Mentored over 30 students and led weekly study sessions
- Graded weekly homework

National Research University "Higher School of Economics"

Moscow, Russia

Teaching assistant for the MOOC "Algorithms and Data structures - Part I"

Mar – Jul 2020

- Created over 25 theoretical problems for various topics
- Tested checkers for practice exercises

Projects

Research on fine motor movement classification

🌐 no-brainer/fine-motor-movements

- Developed an Android app for data collection and data labelling using Kotlin and Java
- Embedded a trained neural network to an Android app with TensorFlow Lite

Relevant Activities

School on software architecture "School of future CTOs"

Yandex.Cloud

2020

- Designed a backend server for peer-to-peer video call service
- Developed a prototype with the ability to withhold over 10 000 calls at a time using Janus WebRTC, Go, and C

School on replication of state-of-the-art scientific results

Educational Centre "Sirius"

2019

- Worked on a simplified version of Amazon Aurora database with PostgreSQL compatibility
- Implemented node communication using C

Key Skills

Programming Languages: C++/C, Go, Python, Kotlin, Java

Technologies: Git, Docker, Android

Achievements and Awards

2020: Winner of 1C's best student project award

2018: Winner of "Lomonosov" olympiad in mathematics (top 8%)

2018: Prizewinner of Regional Level of Russian National Olympiad in Informatics (top 15%)

2017: 1st place in National Technology Initiative Contest in Wireless Networking (over 1000 participants overall)