SVETLANA SHMIDT

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EDUCATION

Bachelor Degree in Computer Science and Math
Saint-Petersburg State University
📅 July 2019 – Present

EXPERIENCE

Google STEP SRE Intern 2020
 Collectd
📅 July 2020 – September 2020   📍 Munich, Germany (remotely in Russia)

Intern in Manage@Scale team. The goal of the internship was to create and integrate distribution metrics to open-source monitoring daemon **Collectd**. The completed tasks during the internship:
- Created design document in collaboration with other team members and hosts.
- Proposed and implemented an approach of storing new metrics using the advanced data structure.
- Implemented testing module.
- Created benchmarks for comparison of different approaches that were implemented by my STEP partners and me.
- Integrated new data structure to some of the plugins of Collectd: ping plugin and Stackdriver plugin.

Technologies: C, valgring, kcachegrind.

PROJECTS

Checkers
Kotlin
📅 March – May 2020

As a course work, I implemented a Checkers game with Artificial Intelligence Player in collaboration with other students.
- Implemented logic part of the game and console player.
- Implemented testing module.
- Learned about minimax algorithm with alpha-beta pruning and worked on the implementation.
- Designed and implemented evaluation of checkers position for minimax algorithms.
- Learned about the genetic algorithm for position evaluation and worked on the implementation.

RSA
Python
📅 December 2019

Implemented the RSA module that allows generating prime and pseudoprime numbers, encoding and decoding messages and tries to hack the message.

Schreier-Sims algorithm
Python
📅 April 2020

Implemented module that allows solving different theoretical-group problems using the Schreier-Sims algorithm.

SKILLS

C/C++   Kotlin   Haskell   Python
HTML   CSS

LANGUAGES

English   Russian

EXTRACURRICULAR

Mentor of Algorithmic Courses
Coursera
📅 September 2020 - Present
- Mentor of algorithmic online-courses offered by University of California San Diego and National Research University Higher School of Economics on Coursera.

Teacher of Algorithms and Data Structures
Summer Programming School
📅 July 2019
- Teacher in summer programming camp for school students from Russia and CIS countries.

Volunteering
Russia, Saint-Petersburg
📅 December 2019
- Registration Volunteer on ICPC Northeastern Europe Regional Contest and Russian Team Olympiad in Informatics.

ACHIEVEMENTS

National
- 2019 — **Prizewinner, 34 place out of 266**: All Russian Olympiad in Informatics. Innopolis, Russia.
- 2018 — **Prizewinner, 91 place out of 244**: All Russian Olympiad in Informatics. Ulyanovsk, Russia.

International
- 2017 – 2019 — **Finalist**: Open Olympiad in Informatics. Moscow, Russia.
- 2018 – 2019 — **Finalist**: International Autumn Olympiad in Informtics. Shumen, Bulgaria.
- 2019 — **Prizewinner**: Moscow Workshop Juniors. Moscow, Russia.
- 2019 — **Prizewinner**: Innopolis Open International Olympiad in Informatics. Innopolis, Russia.