

# SVETLANA SHMIDT

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Lana243

## EDUCATION

Bachelor Degree in Computer Science and Math

**Saint-Petersburg State University**

July 2019 – Present

## EXPERIENCE

Google SRE Intern

**Canary Analysis Service**

July 2021 – September 2021

Dublin, Ireland (remotely in Russia)

Canary Analysis Service (CAS) is a shared centralized service at Google that offers automatic analysis of key metrics during a production change which quickens development, improves production safety, and helps prevent outages.

The goal of the internship was to improve the server latency analysis to have more accurate predictions and decrease the time of the experiment running.

During the internship the following points were covered:

- Basics of Bayesian inference for data analysis were studied.
- Usage of the Bayesian approach allowed us to analyze the probability of the outage occurred that helps to calculate business metrics and improve the decision-making process.
- Using this knowledge, different latency analyzers were proposed, implemented, and tested.

**Technologies:** C++, Python for data analysis.

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, implemented and tested an approach of storing new metrics using the advanced data structure.
- Using benchmarks analyzed the different approaches to the data structure 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, valgrind, kcache-grind.

**Checkers**

**Kotlin**

March 2020 – May 2020

As a course work, I implemented a Checkers game with Artificial Intelligence Player in collaboration with other students.

- Implemented and tested logic part of the game and console player.
- Studied and implemented minimax with alpha-beta pruning and genetic algorithms
- Created assessments for checker positions.

## 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 Informatics. Shumen, Bulgaria.
- 2019 – **Prizewinner:** Moscow Workshop Juniors. Moscow, Russia.
- 2019 – **Prizewinner:** Innopolis Open International Olympiad in Informatics. Innopolis, Russia.