

Sofia Semenova-Zvenigorodskaya

sofia.ladypython@gmail.com | linkedin.com/in/ladypython | github.com/ladypython | gitlab.com/ladypython

Education

University of Bern

Jan 2022 — Jul 2022

Study Exchange Program

Switzerland, Bern

- Computer Architecture, Introduction to Blockchain

Higher School of Economics, GPA 8.55/10

Sep 2020 — Jul 2024

Bachelor's of Science in Computer Science, Applied Mathematics and Informatics

Russia, Moscow

- C++, Algorithms and Data Structures, Distributed Systems, Service-Oriented Architectures, Computer Architecture and Operating Systems, Concurrency, Networks, Database Systems, Basics of Software Engineering, Introduction to Machine Learning, Probability Theory and Mathematical Statistics

Work experience

Meta

Oct 2022 — Sep 2023

Business Engineering Intern, GBG In-Market, EMEA-Northern Europe

United Kingdom, London

- Developed a process to detect regressions in extractions of Interactive Annotator (Chrome extension for manual annotation of product price, title, images, etc.) due to changes on the client website. The affected product catalogs were then automatically sent for reannotation, ensuring accurate information extraction.
- Identified that ~100 catalogs with products fail on a daily basis, which can now be reannotated through the process.

Yandex

Jul 2021 — Oct 2021

Intern, Yandex Object Storage, S3

Russia, Moscow

- Researched on the strengths and weaknesses of Yandex Object Storage vs competitors, using Yandex Tank.
- Integrated an internal S3 with another inner service using REST API, GoLang, SQL.
- Enhanced the mechanism of managing access to buckets (ACL) in the internal Object Storage.

Google

Jul 2020 — Sep 2020

Student Training in Engineering Program Intern

Remotely

- Developed an open-source web application (github.com/googleinterns/step244-2020) in a team. The app helps users find events and communities based on their interests and geodata. Provided information is synchronized with Google services (Calendar, Maps). I fully accomplished one specific part of the project: retrieving information about future events. Made both back-end (Java, Maven, JUnit, Mockito) and front-end (HTML, CSS, JavaScript).
- Taught myself Java and various Google APIs (Datastore, Authentication, Charts, etc.) to create a personal portfolio website (github.com/LadyPython/step-2020).

Yandex

Jan 2020 — Jun 2020

Intern, Internet of Things, hub for devices

Russia, Moscow

- Optimized the transmission of monitoring information to reduce data transfer over the wire.
- Implemented JSON-RPC API as an alternative for REST API for better user and device manufacturer experience.
- Improved inflection of words in the app linking C library to Go code using cgo.
- Learned how to use Docker, Flask, Unicorn and NGINX for adding examples of Python code to the documentation.

Technical Skills

Languages: Python, C++, GoLang, SQL, Hack, JavaScript, Java (basics), Assembly (basics)

Technologies: Git, Docker, AWS, React, SQLite, SQLAlchemy, LaTeX, HTML, CSS, CMake, NumPy, Matplotlib/Seaborn

Projects

Company mentions analyzer, supervised by Kazakov Eugene, SWE at Meta

github.com/amgfrthsp/company_mentions

- Team developed the Telegram-bot that finds and analyses mentions of companies in news and social media. Bot is written on Python, mentions are extracted with websites' API or with web scraping (requests, BeautifulSoup4), then sentiment-analysis is used for understanding the context of mentions (dostoevsky, vaderSentiment). I learned good coding practices such as ORM (SQLAlchemy) or CI/CD (github actions).

Hash Table

github.com/LadyPython/HashTable

- Implemented Hash Table with Separate Chaining in C++. Dynamic rehashing with doubling and halving the table size.

Smart Pointers, Scheme Interpreter

- As part of university tasks, I implemented Unique and Shared smart pointers in C++ and interpreter of Scheme in C++. Maintained processing of expressions, exceptions, variables, conditions, lambdas and lambda captures.

Contest

gitlab.com/DeadUnicorn666/ctf-platform

- Created the informatics competition for the 7th grade with my classmate, I was responsible for the front-end (Bootstrap).