KIRILL BAS

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EDUCATION

Saint Petersburg State University

- Bachelor in Mathematics and Computer Science
- Relevant courses: Calculus, Linear Algebra, Programming in C and C++, Intro to CS

EXPERIENCE

Yandex LLC, FinTech, Software Engineer Summer 2021 - Summer 2022

- Developed, launched and maintained multiple microservices that simplifies communication between buisness and customers, allows to track the status of order readiness
- Provisioned an easily manageable hybrid infrastructure (Yandex Cloud) utilizing IaC tool Terraform
- Installed and configured system consisting of Kibana, ElasticsearchFinTech

Yandex LLC, ML infra, Software Engineer Intern Spring 2021

- Building realtime streaming embedding pipeline which improves recommendation quality by 3.9
- Realtime pipeline consumes user events (3 TB / day), pushes them into sharded persistent queues, aggregates item history on the fly, computes embeddings using matrix factorization methods (ALS and friends)
- Configuring monitoring via in-house technology Solomon (like Grafana) which improves observability by 2

Teacher of Algorithms and Data Structures Fall 2020 - Spring 2021

- Teaching the most used algorithms and data structures in programming competitions

ACHIEVEMENTS

- Participated in final stage of Russian National Olympiad in Programming: **146th** of over 50000 participants and 3rd degree award (**2019**), **99 percentile**
- Became an **Expert** at <u>Codeforces</u>, **95 percentile**
- Participated in final stage of Russian National Team Olympiad in Programming: **140th** of over 1000 teams (**2017**), **157th** of over 1000 teams (**2016**), **90 percentile**

PROJECTS

Russian National Olympiad Statistics, Web Application

- Created the website layout and prepared the data about the participants of the Olympiad to be used for interactive statistics (map charts, bar histograms, line charts)
- Working on the interaction of the front-end interface of the website and the **Google Charts API** to display user-friendly interactive diagrams

Encryptor, Android / Java Application

- Built application that encrypts text messages using chosen algorithm and shows the encryption steps
- Implemented various ciphers using Java **cryptographic** libraries (e.g., Caesar, Vigenere, Atbash, ROTX, Polybius, RSA)

ADDITIONAL EDUCATION

Advanced Educational and Scientific Center of Moscow State University Sep 2018 - Jun 2020

- **Top #1** high school accroding to RAEX rating