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CV- FARRUKH KARIMOV

Work experience

- **Yandex Technologies (June 2019 - December, 2019).**
I interned in the internal Yandex resource allocation service - between Yandex projects. Some of the goals of this project are to avoid unplanned resource usage, generate forecasts of resource usage and centralize requests from various data centers for the purchase of new equipment.
Technologies used : Java 8, Spring MVC, Git, PostgreSQL, TeamCity, Maven.
During the internship I did :
 - have added selection functionality for various objects to the http request handler, and also accelerated another one by 2 orders of magnitude ; used by other 7+ services.
 - implemented CORS support, which is used by developers of other services to work with our service from JavaScript; during the internship - used by one service.
 - added synchronization metrics (using the codahale metrics registry) to collect information about resource usage (especially resource overruns), as well as measure the load of various services on our.
 - reduced the load on the database of another service by 50%, by changing page pagination to cursor pagination in synchronization methods.
- **EPAM Systems(February 2020 - March, 2020).**
I worked as a team building a queue management web app with Telegram bot support.
I worked on creating the queue management logic. I used the Treap data structure instead of Linked List to improve the time complexity of the search command from linear to logarithmic in average, because it's most commonly used command in the queue logic. Set up a workflow on github to run unit tests on any changes, which adds an extra layer of security to project development.
Technologies used : Java 8, Git, Maven, Telegram Bot API.
Link : <https://github.com/RooBarsic/QueueManager>
- **Huawei Technologies (July 2020 - Present)**
Currently doing an internship in the Storage Compression Algorithm department at Huawei Cloud BU.

Education

- **2017 – 2021, Bachelor's in Computer Science, ITMO University,** Saint-Petersburg
- **Winter Computer School 2017, Dolgoprudny (Moscow region),** Moscow Institute of Physics and Technology

Highlighted projects

- **Books Info Application** — multilingual client-server application in Java 8, during Java courses in university. In this project I used : UDP - for connecting client and server apps, Swing components - for apps GUI, PostgreSQL as a DBMS. Link: <https://github.com/RooBarsic/ClientServerApplication>
- **Space Scouts** — is a multi-player online shooter based on the game Mass Effect. I created this web application while studying courses in web programming and database management systems at the university. I developed a database in which I added indexes to tables, based on searches for the most likely types of queries, in order to speed up query processing. Link : <https://github.com/RooBarsic/DatabaseDesign-Coursework>
In process of development of my Backend application I was using Java EE servlets. As DBMS I use PostgreSQL and use JDBC to connect my web-app backend with database. Also such solutions as Java EE JSP, JSF and VueJs we're involved for implementation Frontend part of my project. For authorization I used OAuth 2.0, which allows authorization using social media accounts.
You can find demonstration video there : <https://yadi.sk/d/tMyarH2CT9pyRg>
Link to source project : <https://github.com/RooBarsic/SpaceScouts>
- **Vious** — is a virtual assistant for learning English. I develop it in Java 8 in my free time. In the process of developing my application, I used : Yandex translation API - to translate new words; json and csv formats - for storing application data; priority queues and interval repetitions - for effective learning new words. Link to source project : <https://github.com/RooBarsic/Vious>

Competitive Programming Achievements

- 1/2 ICPC World Finals 2017 : 3rd degree diploma
- International Olympiad in Informatics 2016 and 2017 : certificate of participation
- Asia-Pacific Informatics Olympiad 2015, 2016 : Honourable mention
- Eurasian Olympiad in Informatics 2013-2017 : 1th, 2nd and 3rd degree diplomas
- International Zhautykov Olympiad 2016 : bronze medal and 3rd degree diploma

Computer skills

Programming languages : Java, C++, C, SQL
Experience with : Perl, Shell, Python, Go, Delphi
Frontend : html, css, JavaScript, VueJs
DBMS : PostgreSQL, MySQL
IDE : IntelliJ-based IDEs, Code: Blocks, Geany, Visual Studio Code
OS : Mac OS, Ubuntu, Windows