

Ali Panesh

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EDUCATION

Higher School of Economics

BACHELOR OF COMPUTER SCIENCE, ML DEPARTMENT

Moscow/Remote

2019-2023

EXPERIENCE

Yandex

Remote

SOFTWARE ENGINEER C++ | BANK UNIT

Oct 2022 - Present

Implemented [multiple set-cookie](#) and [bson<->json conversion](#) avoiding stack overflow in [userver](#) framework.

Implemented backend to use a restricted bank mobile application without a bank account.

Gologin

Remote

DEEP LEARNING ENGINEER | GOLESS

Jul 2022 - Sep 2022

Made and trained the model for **object detection** with mAP@0.5 over **90%** to parse websites using **PyTorch** and **YOLOv5 (paper)**.

Developed microservice in **Python** from scratch, which handles this model. The service detects bounding boxes for the website picture and writes it as a response to **MongoDB**. We chose **AWS S3** for storing images and **RabbitMQ** as a queue for this microservice.

JUNIOR SOFTWARE ENGINEER C++ | ORBITA BROWSER

Nov 2021 - Jun 2022

Found vulnerabilities in the fingerprint in `getClientRect`, `canvas` and `WebGL` images, etc. and fixed them with **C/C++**.

Created a rebasing script for **Chromium** using **Node JS**, **Python**, and **git patches**, which decreased the time of rebasing between chromium branches by **90%**.

Yandex

Moscow

INTERN SOFTWARE ENGINEER C++ | DELIVERY UNIT

Jul 2021 - Oct 2021

Implementing the feature reduced rejection by almost **10%**.

SKILLS

- **Programming languages:** C/C++, Python, SQL, Golang, JavaScript, Bash
- **Technologies:** Git, Linux, Docker, PostgreSQL, MongoDB, ClickHouse, Kafka, Redis, MapReduce
- **Languages:** English: upper-intermediate, Russian: native

PROJECTS

- **Chat** is a console **client-server C++** application based on **Boost.Asio** using **socket**, **thread**, **JSON**. The README contains all commands and instructions.
- NewSQL database. It's written using **C++**, **ragel** and **bison** for parsing queries, **LLVM IRBuilder** for JIT compilation for execution query. Every query running in RAM. Database use file for each table.