

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++, Go, PostgreSQL, MongoDB, Kafka

Oct 2022 - Present

Designed and led smart the cache microservice for screen to maintain the consistency across main screens with a **30ms** latency on the **p99.9**.

Developed **multiple set-cookie** and **bson<->json conversion avoiding stack overflow** in **userver** open-source framework.

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

Gologin

Remote

DEEP LEARNING ENGINEER | PyTorch, MongoDB, RabbitMQ, S3

Jul 2022 - Sep 2022

Made and trained the model for **object detection** with mAP@0.5 over **95%** to parse websites using **PyTorch** and **YOLOv5**.

Developed microservice from scratch, which handles this model. The service detects bounding boxes for the website picture and writes it as a response to **MongoDB**.

JUNIOR SOFTWARE ENGINEER CHROMIUM | C++, Node.js, Python

Nov 2021 - Jun 2022

Created a rebasing script for **Chromium** using **git patches**, which decreased the time of rebasing between chromium branches by **95%**.

Found vulnerabilities and fixed them in the fingerprint in getClientRect, canvas and WebGL images, etc.

For UI invented avatar over icon for **windows**, **ubuntu**, and **macos** to differentiate opened profiles with **skia**.

Yandex

Moscow

INTERN SOFTWARE ENGINEER | C++, PostgreSQL

Jul 2021 - Oct 2021

Implemented the feature that reduced driver rejection by **10%**.

SKILLS

- **Programming languages:** C/C++, Python, SQL, Go, JavaScript, Bash
- **Technologies:** Git, Linux, Docker, PostgreSQL, MongoDB, ClickHouse, Kafka, Redis, S3
- **Languages:** English: upper-intermediate, Russian: native

PROJECTS

- **Diploma work: Dialogue Subject's Recommendation based on Knowledge Graphs.** Graph translation-based model achieved hit@10 **32%** on Typical-Chat, **37%** on Daily Dialog.
- 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.
- **Chat** is a console **client-server C++** application based on **Boost.Asio** using **socket**, **thread**, **JSON**. The README contains all commands and instructions.