Ali Panesh

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EDUCATION

Higher School of Economics — *Moscow*

Bachelor of Computer Science, ML department — *2019-2023*

EXPERIENCE

Yandex — *Remote*

Software Engineer C++ — *Oct 2022 - Present*

Decrease log counts for **75-95%** for spamming services

Gologin — *Remote*

Deep Learning Engineer — *Jul 2022 - Present*

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++ — *Nov 2021 - Jun 2022*

Found a vulnerability in the fingerprint in getClientRect, canvas and WebGL pictures, etc., and solved 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++ — *Jul 2021 - Oct 2021*

Implemented new features in the delivery unit. Some of them were part of a big update, which decreased ride cost by **20%** and others decreased rejection nearby **10%**.

SKILLS

- **Programming languages**: C/C++, Python, SQL, JavaScript, Golang, Bash, Latex
- **Technologies**: Git, Linux, Docker, MongoDB, PostgreSQL, Boost, LLVM, PyTorch, SKlearn, Node JS
- **Strong knowledge**: C++, Discrete math, Algorithms, Olympiad math
- **Basic knowledge**: Machine Learning, Deep Learning (CV, NLP), Distributed systems, Databases
- **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.
- Machine learning, deep learning, and optimization in machine learning homework were written using Jupiter Notebook, **Python** (**PyTorch**, **Pandas**, **SKlearn**, **NumPy**, etc.).