Ali Panesh

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EDUCATION

Higher School of Economics
Moscow

Bachelor of Computer Science, ML departament
2019-2023

EXPERIENCE

Gologin
Remote

Junior Software Engineering C++ | Node JS
Nov 2021 - Present

Find a vulnerability in fingerprint and solve it to provide secure anti-detect browser such as implement noise in getClientRect, load special fonts and others using **C/C++**.
Updated UI our logo at new-tab-page **HTML, CSS, JS**. Implement force pined extension using **C/C++**.
Create rebasing script for Chromium using **JS (Node)**, **Python**, **git patches**, which decreased rebasing on new chromium branch time from week to few hours.

Yandex
Moscow

Intern Software Engineering C++
Jul - Oct 2021

Implementing new features includes changing REST API. Some of them were part of a big update, which decrease ride cost by **20%**, others decreased rejection nearby **10%**. Stack: **C++** and **SQL** and coroutine framework **Userver**
Create tests for code with **PyTest** and Yandex features

SKILLS

- **Programming languages**: C/C++, Python, SQL, JavaScript, Golang, Bash, LaTeX, HTML, CSS
- **Technologies**: Git, LLVM, bison, ragel, boost, PyTorch, SKlearn, Pandas, Numpy, Matplotlib, PyTest, Node.js, Linux
- **Strength knowledge**: C++, Discrete math, Algorithms, Olympiad math
- **Basic knowledge**: Machine Learning, Deep Learning (CV, NLP), Distributed system, Databases
- **Languages**: English: upper-intermediate, Russian: native

PROJECTS

- Chat. Console **client-server** application is written using **C++**. Based on **boost** using **socket**, **thread**, etc. Using jsons to parse messages. The readme contains all commands and instruction.
- Machine learning, deep learning and optimization in machine learning homework. Written using Jupiter Notebook, **Python** (**numpy**, **pandas**, **sklearn**, **torch**, etc.). Example:
  Neural network with average loss **0.773** in predicting score rating for hotels by user text review using pre-trained **bert transformer** - SentenceTransformer.
  Linear regression with RMSE loss nearby **0.41** (the best result of the competition is 0.28, percentile 40) in kaggle competition NY taxi trip duration.
- SQL like database. Written using **C++**, **ragel** and **bison** for parsing queries, **LLVM IRBuilder** for just in time compilation for execution query. Every query running in RAM and uses file per each table. The database support boolean, uint64, varchar, string as types in schema.