Artem Zhukov CV

<https://github.com/ZhukovGreen>

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Software engineer and machine learning engineer with more than 4 years of experience.
Interested in building web applications and bots, complimented with machine learning, growing as a professional, learning new technologies, experimenting and building interesting products.

Tech stack

- web, web applications, microservices, api, bots
- python, aiohttp, numpy, pandas, scipy, pytorch, keras, scikit-learn, xgboost, opencv, freecad, aiogram
- linux, shell, git, docker, gitlab, postgresql, redis, openapi, swagger
- vim, pycharm

Free time

I contribute to open-source projects (i.e.
<https://github.com/cr0hn/aiohttp-cache>,
<https://github.com/webknjaz/docker-freecad-cli>,
), writing telegram bots (i.e.
<https://github.com/ZhukovGreen/gcal_time_track_tg_bot>,
), testing different neural nets architectures and learning new things.

Experience

System Architect | Machine learning engineer | Software team leader at Remak

Dates Employed Jan 2016 – Jan 2020

Employment Duration 4 yrs 1 mos

Building a software platform to support new products and the company's processes.
- leading the team of 4 developers, learning from them
- determining backend architecture and technological stack
- building microservices (Python, aiohttp, Docker, openAPI ...)
- setting up CI pipelines for microservices
- unit and integrational tests and deployment to the staging server
- setting up app monitoring
- applying machine learning techniques to improve user experience. Particularly speeding up the calculation processes (supervise learning, mostly with gradient boosting, applying optimization with evolutionary algorithms)

HVAC (heating, ventilation and air conditioning) proffesional

Dates Employed May 2006 – Aug 2016

Employment Duration 10 yrs 3 mos

I was working in a variety of positions within the HVAC industry
- Compact Air Handling Units (AHU) project manager (~ 1 year)
- AHU technical support (~1 year)
- HVAC designer (~5 years)
- Energy modeler for LEED certification (~ 1 year)
- Technical superviser on site (~1 years)
- Ventilation systems installer (~1 year)

Projects
- Air handling units selection engine powered by machine learning
- <https://gitlab.com/remak-dva/docker-freecad-cli>
- <https://gitlab.com/zhukovgreen/pozemky> - This is how I bought my home

- <https://github.com/ZhukovGreen/gcal_time_track_tg_bot> - This is how I used to track my time
- Dog breed identification <https://github.com/ZhukovGreen/dog-project/blob/master/dog_app.ipynb>
- Reinforcement learning <https://github.com/ZhukovGreen/machine-learning/blob/submission/smartcab/projects/smartcab/smartcab/agent.py>
- Supervise learning problem <https://github.com/ZhukovGreen/UMLND/blob/d7a1326247705cac90120c266ca6296e7b19e257/finding_donors/finding_donors.ipynb>
- PyTorch, transfer learning <https://github.com/ZhukovGreen/pytorch-scholarship-challenge>
- Unsupervised learning problem <https://github.com/ZhukovGreen/machine-learning/blob/submission/costumer-segments/projects/customer_segments/customer_segments.ipynb>

Education
Udacity

Degree Name Nano-degree
Field Of Study Machine Learning
Grade Nano-degree
Dates attended or expected graduation 2016 – 2018

<https://www.udacity.com/course/machine-learning-engineer-nanodegree--nd009>

Stanford University Online

Degree Name Online Education
Field Of Study CS229: Machine Learning
Grade NA
Dates attended or expected graduation 2016 – 2017

I passed through all lectures videos and keynotes, resolved all assignments.
Course syllabus: <http://cs229.stanford.edu/syllabus.html>

Donbass State Academy of Civil Engineering and Architecture

Degree Name Master’s Degree
Field Of Study Mechanical Engineering (HVAC)
Grade M.Sc. in heating, ventilation, air conditioning systems
Dates attended or expected graduation 2002 – 2008

Courses

Udacity: PyTorch Scholarship Challenge from Facebook
A vast amount of different courses at Udemy, such as data structures and algorithms, PyTorch Reinforcement learning etc.

Languages
Russian - native
English - good proffesional level
Czech - good proffesional level

Social profiles
- GitHub <https://github.com/zhukovgreen>
- GitLab <https://gitlab.com/zhukovgreen>
- StackOverflow <https://stackoverflow.com/users/4351027/artem-zhukov>
- Twitter <https://twitter.com/zhukovgreen>
- LinkedIn <https://www.linkedin.com/in/artem-zhukov-0556b422/>