

## # 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 DevOps, infrastructure automation, web applications and bots. Compliment projects with machine learning, growing as a professional, learning new technologies, experimenting and building interesting products.

## # Tech stack

- Linux operating systems
- Containerization, distributed systems, cloud computing (Docker, AWS, Kubernetes)
- Automation (
  - CI/CD, Gitlab CI, Circle CI, Ansible, Python, docker-compose, Kubernetes, Vagrant,)
- Software development (
  - web, web applications, microservices, apis, bots, testing, code linting,)
- Backend developer (
  - python, aiohttp, numpy, pandas, scipy, pytorch, keras, scikit-learn, xgboost, opencv, freecad, aiogram)
- Other tools (
  - shell scripting, git, docker, gitlab, postgresql, redis, celery, openapi, swagger, pre-commit)
- vim, vim scripting

## # 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](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 processes.

### \*\*DevOps:\*\*

- Setting up automatic deployment system with a help of Gitlab runners, docker-compose, shell scripting and Gitlab CI.
- Writing Ansible and Vagrant scripts to deploy the app on Kubernetes
- Containerization of a different applications for the needs of the team (
  - i.e. special cli version of FreeCAD, image with pythonnet support on Linux and Mono, linux with wine integration to run windows assemblies on linux)
- Building infrastructure automation for development and staging environments
- Setting up app monitoring with help of Gitlab CI, Sentry and some scripting
- Setting up app templating, pre-commit hooks for a team

### **\*\*Team leadership:\*\***

- leading the team of 4 developers, learning from them
- determining backend architecture and technological stack

### **\*\*Software developer:\*\***

- building microservices (Python, aiohttp, Docker, openAPI ...)
- unit, integration and load testing
- setting up CI pipelines for linting, testing and building images

### **\*\*Machine learning engineer:\*\***

- applying machine learning to improve user experience. Particularly speeding up the calculation processes (supervise learning, mostly with gradient boosting and partly with the PyTorch, applying optimization with evolutionary algorithms)

## **## HVAC (heating, ventilation and air conditioning) professional**

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 supervisor 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](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](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](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](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 professional level  
Czech - good professional 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/>>