

Roman Beltiukov

REINFORCEMENT LEARNING RESEARCHER

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Skills

Machine Learning	Reinforcement Learning, Classic ML, Deep Learning, Computer Vision (+ OpenCV), TensorFlow, PyTorch
Programming	Python, C#, C++/CUDA, SQL, LaTeX
System administration	Windows Server, Linux (Debian-based), AD, Virtualization (Hyper-V, SCVMM, Xen), Network (Routing, Switching, Cisco), Data Storage systems (SAN)
Languages	English, Russian
Other	Git, Docker, Bash, Databases

Experience

Data Scientist

HUAWEI

- Research onboard Machine Learning techniques, network distillation, pruning, mobile device inference.

St. Petersburg, Russia

Mar. 2020 - now

Research intern

JETBRAINS RESEARCH

- Reproduced several articles to understand different possible approaches.
- Prepared a report and gave a talk about the current situation in this area.

St. Petersburg, Russia

Oct. 2019 - now

Python tutor

HIGHER SCHOOL OF ENGINEERING

- Designed several Python courses for different kinds of listeners.
- Semi-automated home task checking with unit tests and GitHub.
- Wrote a task book for Python learners with tasks ordered by complexity.
- Recorded video lectures and prepared courses for online education.

St. Petersburg, Russia

Sep. 2018 - now

System administrator

HIGHER SCHOOL OF ENGINEERING

- Implemented failover solution for the data storage network.
- Expanded and augment existing virtual machines infrastructure.
- Deployed advanced network and infrastructure monitoring services (like IDS, IPAM, centralized logging, etc.).
- Expanded domain and infrastructure to several branch offices.
- Migrated multiple services to docker.
- Created solution for HTML5-based access to virtual machines on Hyper-V/SCVMM hosts.

St. Petersburg, Russia

Jul. 2015 - Jun. 2019

Education

SPbU (Saint-Petersburg University)

PH.D. IN COMPUTER SCIENCE

- Thesis: developing methods based on world model creation for implementing the agent's memory in reinforcement learning.

St. Petersburg, Russia

Sep. 2019 - now

SPbPU (Peter the Great Saint-Petersburg Polytechnical University)

M.S. IN COMPUTER SCIENCE

- Thesis: Optimizing Q-learning with K-FAC algorithm

St. Petersburg, Russia

Sep. 2017 - Aug. 2019

SPbPU (Peter the Great Saint-Petersburg Polytechnical University)

B.S. IN COMPUTER SCIENCE

- Thrice student of the year
- Thesis: application of generative adversarial networks to music generation

St. Petersburg, Russia

Sep. 2013 - Aug. 2017

Additional education & Courses

Machine learning	Coursera (by Andrew Ng), score: 97.3%
Probability theory	Stepik (by Computer Science Center)
Statistics	Stepik (by Computer Science Center)
Astrophysics	Coursera (by SPbPU), score: 88.9%

Honors & Awards

INTERNATIONAL

2018	Winner (individual) , Student's competition "World-IT-Planet", Cloud Computing track by Huawei	<i>Tyumen, Russia</i>
2018	Runner-up (2nd place) of the challenge (in-team) , HackJunction, "Mobility" by QOCO	<i>Helsinki, Finland</i>
2017	Winner (individual) , Student's competition "World-IT-Planet", Cloud Computing track by Huawei	<i>Sochi, Russia</i>
2017	Challenge winner (in-team) , HackJunction, "Robots, learning machines" by Eficode and Bitville	<i>Helsinki, Finland</i>

DOMESTIC

2018	Special award (in-team) by Institute of Bioinformatics , BioHack 2018 by EPAM Systems	<i>SPb, Russia</i>
2017	Winner (in-team) , Hackathon "Make your university 20.35"	<i>SPb, Russia</i>

Certifications

OPENEDG

2019	Certified Associate in Python Programming , Verification Code: 6iTz.Eo4D.sR6J
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MICROSOFT

2018	Microsoft Certified Solutions Expert: Cloud Platform and Infrastructure , Certification number: G878-5366
2018	Microsoft Certified Solutions Associate: Windows Server 2016 , Certification number: G878-5139
2017	Microsoft Certified Professional , Certification number: G511-2245

CISCO

2018	Cisco CCNA Instructor , Network Academy Instructor
2017	Cisco Certified Network Associate Routing and Switching , Certificate verification number: 432903347147JRBH

HUAWEI

2017	Huawei Certified Network Associate Storage , Certificate number: 010100901680806862091409
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Publications

Optimizing Q-learning with K-FAC Algorithm
Roman Beltiukov
Analysis of Images, Social networks and Texts, 2019

Open-source contributions

digestbot @ ODS.AI

- Project: slack bot for finding hot topics and important messages.
- Primary maintainer and architect of the project.
- Contribution: architecture, crawler code, UI code, internal logic, deploy, and support.

Tortilla @ maybe-hello-world

- Project: HTML5 web interface for Hyper-V virtual machine with role-based access (based on Apache Guacamole).
- Primary maintainer and architect of the project.
- Contribution: architecture, UI, backend (except Java wrapper for Guacamole), deploy.

PowerShell @ Microsoft | Proposed and added additional arguments to commands for working with PFX certificates.

Posh-ACME @ rmbolger | Fixed incorrect error ignoring, which prevented automation of several tasks.

xcp-lab-cli @ SPbSTU | Bugfixes, implemented cleanup of old labs, teacher VM creation, and other functions.