Roman **Beltiukov**

MACHINE LEARNING RESEARCHER

Saint-Petersburg, Russia
December 8, 1995

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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

Experience

Research intern — *St. Petersburg, Russia*
JetBrains Research — *Oct. 2019 - now*
- Research reinforcement learning approaches based on world model creating.

Python (programming language) tutor — *St. Petersburg, Russia*
Higher School of Engineering — *Sep. 2018 - now*
- Designed several Python courses for different kind of listeners.
- Semi-automated hometask checking with unittests and GitHub.
- Wrote task book for Python learners with tasks ordered by complexity.

System administrator — *St. Petersburg, Russia*
Higher School of Engineering — *Jul. 2015 - Jun. 2019*
- Implemented failover solution for data storage network.
- Expanded and augment existing virtual machines infrastructure.
- Automated multiple manual tasks with big Powershel or Python solutions.
- 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 macines on Hyper-V/SCVMM hosts.

Education

SPbPU (Peter the Great Saint-Petersburg Polytechnic University) — *St. Petersburg, Russia*
M.S. in Computer Science — *Sep. 2017 - Aug. 2019*
- Thesis: Optimizing Q-learning with K-FAC algorithm

SPbPU (Peter the Great Saint-Petersburg Polytechnic University) — *St. Petersburg, Russia*
B.S. in Computer Science — *Sep. 2013 - Aug. 2017*
- Thrice student of the year
- Thesis: application of generative adversarial networks to music generation

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

DOMESTIC

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

Certifications

OPENEDG

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

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

Publications

Optimizing Q-learning with K-FAC Algorithm
Roman Beltiukov
Communications in Computer and Information Science, 2019

Open-source contributions

digestbot @ ODS.AI

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

Tortilla @ maybe-hello-world

- Project: HTML5 web interface for Hyper-V virtual machine with role-based access (based on Apache Guacamole).
- Main maintainer and architector 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.