# 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

· Research reinforcement learning approaches based on world model creating.

#### Python (programming language) tutor

HIGHER SCHOOL OF ENGINEERING

• 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

HIGHER SCHOOL OF ENGINEERING

- 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 Polytechnical University)

M.S. IN COMPUTER SCIENCE

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

#### 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. 2017 - Aug. 2019

Oct. 2019 - now

Sep. 2018 - now

St. Petersburg, Russia

St. Petersburg, Russia

Jul. 2015 - Jun. 2019

St. Petersburg, Russia

Sep. 2013 - Aug. 2017

## Additional education & Courses

Machine learningCoursera (by Andrew Ng), score: 97.3%Probability theoryStepik (by Computer Science Center)StatisticsStepik (by Computer Science Center)AstrophysicsCoursera (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			

#### **DOMESTIC**

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

### Certifications

#### **OPENEDG**

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

#### **MICROSOFT**

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

#### Cisco

- 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.