Roman Beltiukov

MACHINE LEARNING RESEARCHER

Saint-Petersburg, Russia December 8, 1995

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Oct. 2019 - now

Sep. 2018 - now

St. Petersburg, Russia

St. Petersburg, Russia

Jul. 2015 - Jun. 2019

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

SPbU (Saint-Petersburg University)

Ph.D. IN COMPUTER SCIENCE

Sep. 2019 - now

St. Petersburg, Russia

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

SPbPU (Peter the Great Saint-Petersburg Polytechnical University)

M.S. IN COMPUTER SCIENCE

St. Petersburg, Russia Sep. 2017 - Aug. 2019

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

SPbPU (Peter the Great Saint-Petersburg Polytechnical University)

B.S. IN COMPUTER SCIENCE

St. Petersburg, Russia

Thrice student of the year

Sep. 2013 - Aug. 2017

• Thesis: application of generative adversarial networks to music generation

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

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

Huawei Certified Network Associate Storage, Certificate number: 010100901680806862091409

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.
- 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.