nan **Beltiukov**

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Skills

Machine Learning Reinforcement Learning, Classic ML, Deep Learning, Computer Vision (+ OpenCV), TensorFlow, PyTorch

Programming Python, C#, Rust, 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, Powershell, Databases, Hadoop, Hive, PySpark

Experience

On-Device Machine Learning Researcher

St. Petersburg, Russia Mar. 2020 - now

HUAWEI

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

• Designing ML-based system for Android devices targeting all Huawei device users.

• Implementing a prototype for the system mentioned above and doing a performance review.

Research intern St. Petersburg, Russia

JETBRAINS RESEARCH Oct. 2019 - now

· Reproduced several articles in order to confirm achieved results.

• Implemented a novel approach for Prioritized Experience Replay (currently under testing)

• Prepared and held several talks about current progress in Reinforcement Learning field

Python tutor St. Petersburg, Russia

HIGHER SCHOOL OF ENGINEERING

Sep. 2018 - Oct. 2020

• 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.

System administrator

St. Petersburg, Russia

Jul. 2015 - Jun. 2019

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.

Education

SPbU (Saint-Petersburg University)

St. Petersburg, Russia

Ph.D. IN COMPUTER SCIENCE Sep. 2019 - now

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

SPbPU (Peter the Great Saint-Petersburg Polytechnical University)

St. Petersburg, Russia

M.S. IN COMPUTER SCIENCE • Thesis: Optimizing Q-learning with K-FAC algorithm Sep. 2017 - Aug. 2019

SPbPU (Peter the Great Saint-Petersburg Polytechnical University)

St. Petersburg, Russia Sep. 2013 - Aug. 2017

B.S. IN COMPUTER SCIENCE

· Thrice student of the year

• Thesis: application of generative adversarial networks to music generation

DECEMBER 6, 2020

ROMAN BELTIUKOV · CURRICULUM VITAE

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%
- Practical_DL Yandex
- Practical_RL Yandex
- mlcourse.ai OpenDataScience
- dlcourse.ai OpenDataScience

Honors & Awards _

INTERNATIONAL

2018	Winner (individual) , Student's competition "World-IT-Planet", Cloud Computing track by Huawei	Tyumen, Russia
2018	Runner-up (2nd place) of the challenge (in-team), HackJunction, "Mobility" by QOCO	Helsinki, Finland
2017	Winner (individual), Student's competition "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

2020	Microsoft Certified: Azure Al Engineer Associate, Certification number: H455-0627
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

7 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, 2020, Cham

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.