Dmitrii Badretdinov

Software Engineer

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Employment History

DFKI

Part-time: Research Assistant — *September 2019 – December 2021*

Reimplemented and tested E2X – a framework to explain Object Detection, written in Python.
Migrated E2X code from Python 2 to Python 3,
Fixed Protobuf declarations,
Tested all 24 combinations of Ubuntu WSL and CUDA in Caffe to make CUDA work with E2X examples.

Analyzed the tools for wrapping C++ code in Python for Ettention.
Upgraded the CMake pipeline of Ettention to work with the new versions of Visual Studio.

Proactive actions: Rewrote the user and developer manuals to Neuroscope – the tool for which E2X was tested. Restructured the conda environments of Neuroscope to be less pip-dependent for a more reliable setup.

Technologies used: Python, C++, Caffe, CUDA, Anaconda, WSL, CMake, Protobuf.

Svyaznoy Logistics JSC

Internship: Junior .NET Developer — *April 2016 – October 2016*

Developed a client-server app to aggregate the data with SQL queries and show it conveniently.
It saved an hour per day for each employee in the analytics department.

Technologies used: C#, Angular 2, LINQ, ASP.NET, Node.js.

SelhozAgro Ltd.

Part-time: Web-developer — *September 2014 – December 2015*

Created an MVP of the site and migrated it to WordPress.
Eliminated the bottleneck in the sales funnel by migrating price lists from Excel to a MySQL database.

Technologies used: VBA, SQL, HTML, CSS, JS.

Skills and Expertise

Main languages: Python, C#.

Additional languages: Java, SQL, .NET, TypeScript, C++, Lua, VBA, R.

Technologies: Maven, Git, CMake, Linux shell, WSL.

Frameworks: Angular 2, JIRA, Node.js, PostgreSQL, MySQL, PyTorch, Caffe, CUDA, Protobuf, Docker.

Languages: English C2, Russian C2, German A1.

Education

- **2018 – 2021, UdS, Saarbrücken.**
  Degree: Master of Science in Computer Science.
  Notable courses: Software engineering, Data science, Neural networks, Artificial intelligence.
  Thesis theme: Implementing Explain-to-fix in Neuroscope.

- **2013 – 2017, NUST MISIS, Moscow.**
  Degree: Bachelor of Science in Applied Mathematics.
  Notable courses: Object-oriented programming, Databases, Networks, Statistical analysis.
  Thesis theme: Identifying scientific groups in a social network.