Sergei Volkov

Curriculum Vitae

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Citizenship Russian

Languages Mother tongue: Russian

English: C1 () German: B1 ()

Driving license European Driving License: B, C

GitLab/GitHub gitlab.com/taranarmo, github.com/taranarmo

LinkedIn www.linkedin.com/in/taranarmo

Education

2010 - 2015 Specialist degree in Energy Supplies, Petrozavodsk State University

Work experience

Aug 2023 - Data scientist, Crocus Labs GmbH

Feb 2024 Software development, Software architecture, Product design, Project management, Testing, Team leading

Despite position name my job was primarly software development as the product wasn't ready at my arrival

Jun 2021 - PhD Student, Leibniz-Institut für Gewässerökologie und Binnenfischerei (IGB Berlin)

Mar 2023 Research design, Data processing, Field work, Linux systems administration, DevOps

Partial employment as a PhD study salary. Wasn't finished due to low performance and wrong expectations from both sides.

Oct 2020 - Data QA, Playrix

Feb 2023 Data analysis, Validation, ETL design, Manual and automated QA QA in data engineering and then product team. SQL, Python, Apache Spark, Analytics, RegEx,

psql, Bash.

Mar 2020 – **QA engineer**, Playrix

Oct 2020 Manual QA, Automation, Teaching, Testing documentation writing, MitM traffic sniffing, Statistical analysis

Nov 2019 - Data analyst, Playrix

Feb 2020 Data analysis, Automation, User tracking events design, Reporting and presenting to stakeholders SQL, Python, Analytics, DataViz, BigData

May 2016 - **Teaching assistant**, Petrozavodsk state university

Jul 2020 Educational program design, Lecturing, Teaching Thermodynamics, heat transfer and other courses

Jan 2016 - Research assistant, Northern water problems institute

Data analysis, Field work, Experiment design, Data processing frameworks developlment, Academic writing, editing and typesetting

Technical Skills

Development

Currently I'm using **Python** (numpy, pandas, sqlalchemy, matplotlib), loving **Julia** and learning **Nix**, **Linux** user since 2009 (Bash/zsh for scripts and oneliners, system management, remote server administration via **SSH**).

Can write complex **SQL** query statements (with analytic/window functions, subqueries, optimization etc.) and do simple DBMS management in both SQL-like and **NoSQL**.

Able to work with **Docker** and other containerization tools, used Docker container as an environment to compile MATLAB package with external dependencies including OpenCV via CMake

Designed a **AWS** architecture for a **IoT** application (smart lamps for green houses) Built a simple **IoT** showcase using Docker.

Familiar with MATLAB, learned JS and C/C++ a long time ago (can read and write not to complex code).

Communication skills

- Presenting
- Teaching
- Feedback sharing
- Active listening

Organisational / managerial skills

- Field work orginizing
- Managing small team of developers
- Project management

Projects

2015 - 2017 Lake Onego: life under the ice, NWPI

Research and field work

Joint interdisciplinary project to study the under-ice life

2021 – 2023 Lake pycnoclines trap organic particles forming hot spots of accelerated carbon cycling in the water column (PycnoTrap), IGB Berlin

Joined interdisciplinary project researching sinking and degradation of biomass in the turbulent environment (lake water column)

Awards - Certifications - Licenses

2017 Machine Learning, Stanford University at Coursera

Certificate available at https://www.coursera.org/account/accomplishments/verify/U4VGJWXFGMS9

Voluntary

2013 - 2015 Garbage collection, On multiple sites near Onego Lake, Petrozavodsk, Russia

2011 - now OpenStreetMap, Data surveys and contribution, Republic of Karelia, Russia

Thesis

2015 Noniterative heat exchanger calculation

Supervisor: Professor Sergei Bogdanov

The thesis proposes direct analytical calculation procedure for heat exchanger design, avoiding using of optimization techniques

Publications

- Full Reynolds stress tensor of convective turbulence estimated with paired acoustic Doppler current profilers, S. Bogdanov, G. Kirillin, S. Volkov, G. Zdorovennova
- 2019 Fine scale structure of convective mixed layer in ice-covered lake, S. Volkov, S. Bogdanov, R. Zdorovennov, G. Zdorovennova, A. Terzhevik, N. Palshin, D. Bouffard, G. Kirillin
- 2019 Under-ice convection dynamics in a boreal lake, D. Bouffard, G. Zdorovennova, S. Bogdanov, T. Efremova, S. Lavanchy, N. Palshin, A. Terzhevik, L. Vinnå, S. Volkov, A. Wüest, R. Zdorovennov, H. Ulloa
- 2019 Structure and dynamics of convective mixing in Lake Onego under ice-covered conditions, S. Bogdanov, G. Zdorovennova, S. Volkov, R. Zdorovennov, N. Palshin, T. Efremova, A. Terzhevik, D. Bouffard
- 2018 Albedo of a Small Ice-Covered Boreal Lake: Daily, Meso-Scale and Interannual Variability on the Background of Regional Climate, G. Zdorovennova, N. Palshin, T. Efremova, R. Zdorovennov, G. Gavrilenko, S. Volkov, S. Bogdanov, A. Terzhevik

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