PERSONAL INFORMATION

Sergei Volkov

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 gitlab.com/taranarmo

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Date of birth Dec 16, 1990

WORK EXPERIENCE

Aug 2023 – Feb 2024

Data scientist

Crocus Labs GmbH

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

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

Jun 2021 – Mar 2023

PhD Student

Leibniz-Institut für Gewässerökologie und Binnenfischerei (IGB Berlin)

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 – Feb 2023

Data QA

Playrix

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 – Oct 2020

QA engineer

Playrix

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

Nov 2019 – Feb 2020

Data analyst

Playrix

Data analysis, Automation, User tracking events design, Reporting and presenting to stakeholders

SQL, Python, Analytics, DataViz, BigData

May 2016 – Jul 2020

Teaching assistant

Petrozavodsk state university

Educational program design, Lecturing, Teaching

Thermodynamics, heat transfer and other courses

Jan 2016 – now

Research assistant

Northern water problems institute

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

EDUCATION AND TRAINING

2010 – 2015 Specialist degree in Energy Supplies

Petrozavodsk State University

PERSONAL SKILLS

Mother tongue | Russian

Other languages

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
English				
C1	C1	C1	C1	C1
German				
B1	B1	A2	A2	B1

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills
– Presenting
– Teaching
– Feedback sharing
– Active listening

Organisational / managerial skills
– Field work orginizing
– Managing small team of developers
– Project management

Digital competences

SELF-ASSESSMENT				
Information Processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital competences - Self-assessment grid

Computer 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).

CERTIFICATIONS AND LICENSES

Driving licence | European Driving License: B, C

2017 Machine Learning

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

ADDITIONAL INFORMATION

Projects

2015 – 2017   Lake Onego: life under the ice
NWPI

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

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

2021   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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