Curriculum vitae

PERSONAL INFORMATION	## Sergei Volkov

github.com/taranarmo

gitlab.com/taranarmo

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ORCID 0000-0002-5385-1541

Date of birth Dec 16, 1990

WORK EXPERIENCE

Oct 2024 – March 2025   ## Data Engineer
Zalando SE

Software development

Data engineering position in a service team for various internal clients/stakeholders. Bulding new and editing old DAGs, managing databases/datalake.

Aug 2023 – Feb 2024   ## Data Scientist
Crocus Labs GmbH

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

I was hired to build an ETL for collecting data from smart lamps for greenhouses. However, upon my arrival, a complete redesign of the AWS architecture was necessary, which I made but eventually it was canceled. My employment ended when the company decided to switch to a self-hosted solution from cloud-based.

Jun 2021 – Mar 2023   ## PhD Student
Leibniz-Institut für Gewässerökologie und Binnenfischerei (IGB Berlin)

Research design, Data processing, Fieldwork, DevOps, Academic writing and editing

Focused on the hydrophysical aspect of a joint limnological project, with an emphasis on biomass sinking, degradation, and the carbon cycle.

Oct 2020 – Feb 2023   ## Data Quality Engineer
Playrix

Data analysis, Validation, ETL design, Manual and automated QA

Hired by the data engineering team to check the legacy ETL data and conduct data quality control during migration to a new ETL. Later, responsibilities included developing Tableau dashboards and their sources, and consulting developers on calculating different metrics.

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, AB tests

SQL, Python, Analytics, DataViz, Big Data

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, Fieldwork, Experiment design, Data processing frameworks development, 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				
C2	C2	C1	C1	C1
German				
B2	C1	B1	B1	B2

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
– Communicating with stakeholders
– Public speaking
– Teaching/Mentoring
– Feedback sharing
– Active listening
– Remote team building

Organisational / managerial skills
– Agile, Kanban, Scrum
– Managing small teams of developers
– Task management and distribution
– 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**: *Python*: NumPy, Pandas, Matplotlib, Plotly

– **Development**: *Python*: NumPy, Pandas, Matplotlib, Plotly
SQL: Analytic/window functions, query optimization
Data: Spark, Airflow, Databricks, Snowflake, dbt, Tableau, Looker, Plotly Dash, Spreadsheets
NoSQL: DynamoDB, MongoDB
Linux: Bash, system management, SSH, Nix
Containers: Docker/Podman, systemd-nspawn, Kubernetes
IaC: Terraform, Nix
General: Git, Vim, Emacs, Jupyter
CI/CD: GitHub Actions, TeamCity, GitLab
Cloud: AWS, GCP
Typesetting: Markdown, LaTeX, Pandoc
Other: Julia, MATLAB
– **Analytical**: AB test design and analysis
Cohort analysis
Time-series analysis
Descriptive and inferential statistics
Machine learning basics
Data wrangling
– **Research**: *Fieldwork*: Organizing, sampling, working with probes, logistics, hand and power tools
Writing: Academic writing, editing, publishing, proofreading
Data processing: Writing ad-hoc frameworks, automation, visualization

CERTIFICATIONS AND LICENSES

Driving licence

European Driving License: B, C

2017

Machine Learning
Stanford University on 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 a direct analytical calculation procedure for heat exchanger design, avoiding the use of optimization algorithms

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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