Curriculum vitae

PERSONAL INFORMATION	**Sergei Volkov**

 github.com/taranarmo

 gitlab.com/taranarmo

 www.linkedin.com/in/taranarmo

 ORCID 0000-0002-5385-1541

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

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 QA**

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	
C2	C2	C1	C1	C1
B2	C1	B1	B1	B2

English
German

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, SQLAlchemy, Matplotlib, concurrency, Plotly
	SQL: Analytic/window functions, query optimization
	Data: Spark, Snowflake, dbt, Tableau, Looker, Plotly Dash, Spreadsheets
	NoSQL: DynamoDB, MongoDB
	Linux: Bash, system management, SSH, Nix
	Containers: Docker, systemd-nspawn, LXC, Kubernetes, chroot
	IaC: Terraform, Pulumi, Nix
	General: Git, Vim, Emacs, Jupyter
	CI/CD: GitHub Actions, TeamCity, GitLab
	Cloud: AWS, GCP
	Typesetting: Markdown, LaTeX, Pandoc
	Other: Julia, MATLAB, minor knowledge of JS, C/C++
	– **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