

Curriculum vitae

PERSONAL INFORMATION Sergei Volkov

github.com/taranarmo

★ gitlab.com/taranarmo

in www.linkedin.com/in/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

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 Spoken interaction Spoken production Listening Reading C1 C1 C1 C1 C1 A2 Α2 B1 B1 B1

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

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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 Accel-

erated 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

Noniterative Heat Exchanger Calculation 2015

Supervisor: Professor Sergei Bogdanov

The thesis proposes a direct analytical calculation procedure for heat exchanger design, avoiding the use of optimization algorithms

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 icecovered 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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