Dr Vitalii Shkoldin

Data – Analyst/Scientist/Engineer

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As a skilled physicist and programmer, I possess a unique ability to quickly learn and excel in cutting-edge fields, even those not yet widely known. My strong analytical skills, coupled with a deep understanding of scientific principles, enable me to successfully navigate uncharted territories and solve complex problems in innovative ways.

Self-learned Courses

I have a broad background and excel in self-learning.

- Data Analyze, statistics and Machine Learning (1,2,3,4🖼)
  Pandas, sklearn, logic, statistics
- Python basics and application (1,2🖼)
  Python, algorithms
- SQL for Analytics (Karpov.Courses 🖼)
  Data aggregation, combine, metrics
- Cloud service engineer (Yandex🖼)
  AWS and DevOps basics on Yandex cloud platform

Work Experience

ITMO University & Alferov University

Leading universities in the field of nanophotonics and semiconductors.

May 2017 - Dec 2022 | Research engineer & PhD student

I have conducted research in a **niche area**, investigated by only a few cutting-edge scientific groups. I have set up experimental equipment, carried out measurements, and, based on this research, authored over **20 articles, including 6 in Q1 journals**. I have also **supervised student projects**. Additionally, I have successfully **defended my Ph.D., secured 5 grants**, and received several awards and scholarships for my accomplishments.

"NT-SPb"

The company NT-SPb is a scientific equipment manufacturer specializing in atomic force microscopy and a spin-off of the global giant NT-MDT.

May 2018 - Sep 2022 | Engineer

- Custom improvement of microscopes
- On-site and remote microscopes installation, further support

Zoo.SPb.ru - Online Pet Store

2009-2011 | Full stack engineer

Worked at an online pet store with the best courier delivery service in St. Petersburg (Morning notification of delivery time with precision up to ±15 minutes).

- Full Stack Web Developer
- Odoo (ERP-system) administration and modification (python)
- Sync with transportation logistics system for delivery planning, delivery time scheduling, and SMS notifications.

Skills

Python, Pandas, Sklearn, Matpotlib, Seaborn, SQL, Algorithms solving
DevOps, AWS, Docker
BASH, Linux (advanced), GIT

Education

Ph.D. in Physics

Condensed-matter physics
June 2022 | ITMO University

M.Sc. & B.Sc

Electronics and nanoelectronics
2011 - 2017 | St. Petersburg
Polytechnic University

Languages

- English
- Russian (native)
- Hebrew (beginner)