Dr Vitalii Shkoldin

Data – Analyst/Scientist/Engineer

As a proficient Analytics Engineer, I possess a strong analytical mindset with experience in high-tech (ranging from helpdesk support to cloud system deployment). I readily absorb new knowledge and can solve complex problems through innovative solutions. Moreover, I have firsthand understanding of business objectives and place high value on user experience.

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Work Experience:

Pet project – Personal VPN service vpn.al404.spb.ru

Jan 2023 – now | Full stack

- Expertise in implementing VPN using StrongSwan on Amazon and Yandex.Cloud platform
  + Certified Cloud Service Engineer (**DevOps**) (by Yandex 📜)
  + Certified in **SQL** for Analytics (by Karpov.Courses 📜)
  + **Docker** Certification (by Karpov.Courses📜)

ITMO University & Alferov University

Leading universities in the field of nanophotonics and semiconductors.

May 2017 - Dec 2022 | Research engineer | Data acquisition & Data Analyst

- Conducting market and technological **research**
- Secured 5 research grants through successful application, managing, and reporting
- Performing **analysis** and **automation** of experimental data processing using **Python (Pandas)**
- **Data visualization** employing **Matplotlib** and **Seaborn** for presentations in publications and conferences
- Utilizing **Arduino**/ESP8266 programming (**C++**) to enhance equipment capabilities
- Setup and supporting the lab's website and NextCloud for file hosting

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

May 2018 - Sep 2022 | Engineer

- Engaging in **R&D** and customizing microscopes to meet client specifications
- Performing **on-site** and **remote** microscope **installations**, along with providing **ongoing support**
- Conducting software and hardware **bug-testing**

Ioffe Institute June 2012 - May 2017 | System Administrator & Student

- **Network administrator**, helpdesk, Windows Server
- Research, **Data analysis** and processing with Python & **NumPy**

Local ISP Sep 2011 - May 2013 | System Administrator

- Setting up of billing (TraffPro, **iptables, BASH**), maintenance, support
- Adept at efficiently tailoring **Debian Linux** to suit any specific objectives

Zoo.SPb.ru – Online Pet Store

2009-2011 | Full stack engineer

- Full Stack Web Developer (**LAMP stack**, deployment, support, CMS implementation, front-end design, content management, optimization, and PHP module development)
- Odoo Administration (**ERP & CRM system**), **PostgreSQL**, synchronization, custom **Python module development**
- **Predicting** the purchases of each customer.
- Integration with transportation logistics systems for delivery scheduling, time allocation (up to 15 min precision), and SMS notifications via API.

Additional experience

Math Statistics, Algorithm Solving, Git, YouTrack, AWS, PyCharm, DataSpell, Jupyter, Basics of Machine Learning, Orange Data Mining tool, advanced Microsoft Excel, Apache AirFlow, dbt, Redash, LaTeX, electrical circuits, DIY IoT, hiking and cycling :-)

Education

Ph.D. in Physics

Condensed-matter physics
June 2022 | St. Petersburg
ITMO University

M.Sc. & B.Sc.

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

Languages

- o English
- o Russian (native)