Dr **Vitalii Shkoldin**

Python | Data enthusiastic | Physicist   Yerevan (Armenia) or Remote

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Physicist and python-programmer. Know different approaches to experiment and easy to learn how to work with new equipment and get new knowledge.

Experiance

ITMO University
May 2017 - Dec 2022 | Research engineer
- Scanning electron microscopes (work and maintenance, ultra-high vacuum)
- Scientific research (light emission, nanomechanics)
- Signal coupling different equipment
- DIY equipment based on Arduino (Pulse counter, DAC, move control)
- Revers engineering TCP communication protocol and writing python fake server

Alferov University
May 2017 - Oct 2022 | PhD student
- Scanning tunneling microscopes (work and maintenance)
- Investigation of light emitted tunnel junction
- Supervising Master's students project about nanomechanics
- Scientific Articles, scholarships, grants and conferences

"NT-SPb" Surface probe for nanotechnology
May 2018 - Sep 2022 | Engineer
- Business trips and remote microscopes installation
- Conducting workshops and education schools on SPM
- Custom improvement of microscopes

Side jobs
... - 2017

Online Pet Store Zoo.SPb.ru
- web-site from A to Z (Joomla, Virtuemart, Setup, design, up-todate)
- Open Source ERP and CRM (Setup, synchronization, modification)
- Coupling with "Ingit": transport logistic system for delivery (Route planing, time-planning, sms-notification (30 min precision), PostGIS

Dormitory internet provider
- iptables, TraffPro billing tool
- network administration

Freelance:
- Python-automation of data-analyze and fetching
- Telegram text-quest bot

Courses

- Data Analyze (Stepik)
- Python basics and application (Stepik)
- Quick start guide to SQL (LinkedIn)

Skills

Familiar with
Python:
- Pandas   · Matpotlib
- Numpy   · Seaborn
- PySerial   · beautifulsoup4

PyCharm, LabView, Arduino, ESP8266, Advanced Excel, Debian Linux (advanced) LAMP, SSH, Inkscape

Basics
AutoCAD, SolidWorks, CNC, SQL, C++, html/CSS, Electrical circuits

Languages
- English (B2)
- Russian (Native)

Education

PhD in Physics
Condensed-matter physics
June 2022 | ITMO University

M.Sc. & B.Sc
Electronics and nanoelectronics
2011 - 2017 | St. Petersburg Polytechnic University

Soft Skills

- Time Management
- Team Work
- Logical Thinking
- Problem Solving
- Critical Thinking