




Artur SOGOMONYAN

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Software Developer and Machine Learning Engineer

EDUCATION

Data Science — *Master of Science* 2022 - NOW
Technische Universität Wien, Austria

Information technologies and telecommunications — *Bachelor of Science* 2014 - 2020
Bauman Moscow State Technical University
Diploma thesis "3D printer failure detection system based on computer vision detection"

Deep Learning — *Deep Learning School* 2020 - 2021
Moscow Institute of Physics and Technology

Machine Learning — *School of Data Analysis* 2020 - 2020
Higher School of Economics University and Yandex

WORK EXPERIENCE

Data Scientist in Project Rail4Future — *Technische Universität Wien* FEB 2024 - JUL 2024
• Analyzing rail irregularities, refactoring and optimization of the LSTM models. Working with industrial partners Siemens and ÖBB.
• Performed significance tests, achieved robustness, and dramatically improved the performance of the model.

CTO, Data Scientist — *susteam* JAN 2023 - PRESENT
• Architecture and Full Stack development of the ESG system.
• Developed a pipeline with OCR, information retrieval, Data Analysis and Machine Learning. RAG implementation for LLMs.
FastAPI, Amazon Web Services (AWS), Amazon EC2, S3, React.js, Bert, LLama3

Machine learning analyst — *GLOSAV* FEB 2021 - JUL 2021
• Engineered a sophisticated algorithm to detect railway routes with object detection and tracking mechanisms. Developed a robust way to track obstacles on the rails. Achieved good performance and latency for real time stream less than 5ms.
• Contributed to the design and implementation of an expansive microservice architecture of the train autopilot system.
Python, YOLOv5, OpenCV, NumPy

Frontend Developer — *KRK Group* SEP 2019 - DEC 2019
• Developed corporate educational platform, React application, implementation of user interface, communication with databases.
JavaScript, React

Full-Stack Developer — *Linwood* AUG 2018 - SEP 2019
• Implemented all stages of the online store development, subsequent testing, promotion and expansion of functionality for the required business tasks.

Web developer — *Freelance* MAR 2017 - AUG 2018
• carried out projects, as Front-end and Back-end. Implemented from scratch or refactored existing solutions for functionality extensions.
PHP, Yii2, html, scss, Python, Django

SKILLS

Software Development

- docker
- Python
- C++
- R
- Django
- Flask
- FastAPI
- JavaScript
- React, Svelte

Machine Learning

- scikit-learn
- Pandas
- NumPy
- Tensorflow
- PyTorch
- OpenCV
- YOLO
- NLTK, SpaCy
- Bert, LLama3, GPT

Databases and Cloud

- Git
- PostgreSQL
- MongoDB
- Redis
- RabbitMQ
- nginx, Unicorn
- Spark
- AWS EC2, S3

Languages

- English (C1)
- German (A2)
- Russian (C2)
- Armenian (B2)