

# Artur SOGOMONYAN

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## EDUCATION

<b>Data Science — <i>Master of Science</i></b> Technische Universität Wien, Austria	2022 - NOW
<b>Information technologies and telecommunications — <i>Bachelor of Science</i></b> Bauman Moscow State Technical University Diploma thesis "3D printer failure detection system based on computer vision detection"	2014 - 2020
<b>Deep Learning — <i>Deep Learning School</i></b> Moscow Institute of Physics and Technology	2020 - 2021
<b>Machine Learning — <i>School of Data Analysis</i></b> Higher School of Economics University and Yandex	2020 - 2020

## WORK EXPERIENCE

<b>Data Scientist in Project Rail4Future — <i>Technische Universität Wien</i></b> • 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.	FEB 2024 - JUL 2024
<b>CTO, Data Scientist — <i>susteam</i></b> • 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. <b>FastAPI, Amazon Web Services (AWS), Amazon EC2, S3, React.js, Bert, LLama3</b>	JAN 2023 - PRESENT
<b>Machine learning analyst — <i>GLOSAV</i></b> • 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. <b>Python, YOLOv5, OpenCV, NumPy</b>	FEB 2021 - JUL 2021
<b>Frontend Developer — <i>KRK Group</i></b> • Developed corporate educational platform, React application, implementation of user interface, communication with databases. <b>JavaScript, React</b>	SEP 2019 - DEC 2019
<b>Full-Stack Developer — <i>Linwood</i></b> • Implemented all stages of the online store development, subsequent testing, promotion and expansion of functionality for the required business tasks.	AUG 2018 - SEP 2019
<b>Web developer — <i>Freelance</i></b> • carried out projects, as Front-end and Back-end. Implemented from scratch or refactored existing solutions for functionality extensions. <b>PHP, Yii2, html, scss, Python, Django</b>	MAR 2017 - AUG 2018

## SKILLS

Software Development	Machine Learning	Databases and Cloud	Languages
<ul style="list-style-type: none"><li>• docker</li><li>• Python</li><li>• C++</li><li>• R</li><li>• Django</li><li>• Flask</li><li>• FastAPI</li><li>• JavaScript</li><li>• React, Svelte</li></ul>	<ul style="list-style-type: none"><li>• scikit-learn</li><li>• Pandas</li><li>• NumPy</li><li>• Tensorflow</li><li>• PyTorch</li><li>• OpenCV</li><li>• YOLO</li><li>• NLTK, SpaCy</li><li>• Bert, LLama3, GPT</li></ul>	<ul style="list-style-type: none"><li>• Git</li><li>• PostgreSQL</li><li>• MongoDB</li><li>• Redis</li><li>• RabbitMQ</li><li>• nginx, Gunicorn</li><li>• Spark</li><li>• AWS EC2, S3</li></ul>	<ul style="list-style-type: none"><li>• English (C1)</li><li>• German (A2)</li><li>• Russian (C2)</li><li>• Armenian (B2)</li></ul>