



Artur SOGOMONYAN

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EDUCATION

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

WORK EXPERIENCE

Data Scientist in Project Rail4Future — <i>Technische Universität Wien</i> • 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
CTO, Data Scientist — <i>susteam</i> • 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	JAN 2023 - PRESENT
Machine learning analyst — <i>GLOSAV</i> • 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	FEB 2021 - JUL 2021
Project Manager, 3D-Modeller, Software Engineer — <i>Arterra Miniature</i> • Working with customers, 3D visualization, prototyping, 3D- printing, programming microprocessors and microcontrollers, work from scratch to delivery of projects. Blender, Cura, Arduino	FEB 2020 - MAR 2021
Frontend Developer — <i>KRK Group</i> • Developed corporate educational platform, React application, implementation of user interface, communication with databases. JavaScript, React	SEP 2019 - DEC 2019
Full-Stack Developer — <i>Linwood</i> • Implemented all stages of the online store development, subsequent testing, promotion and expansion of functionality for the required business tasks.	AUG 2018 - SEP 2019
Web developer — <i>Freelance</i> • 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	MAR 2017 - AUG 2018

PROJECTS AND AWARDS

Tourism Technology Hackathon — <i>2nd Place Winner</i> • Implemented a data pipeline mapping the data from different sources and building a knowledge graph for the different tourism subjects. The result I visualized as an interactive map with the chat bot, that could wrangle the the point of interest and conclude the insights of the analysis. Selenium, geoandas, folium	NOV - 2023
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Coding Austria — *Lip Reading app at Hackathon*

JUL - 2023

- Utilized Audio-Visual Hidden Unit BERT model for lips reading task for the Austrian Red Cross challenge.
- Integrated the model into the web app, passing the video stream from the smartphone to the model, reading the lips and generating a text passed as a message to the chat.
- This application allowed the Red Cross team to communicate in a very noisy environment, when it is not possible to use walkie-talkies.

AV-HuBERT, FastAPI, Next.js

SKILLS

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