



MICHAŁ MARTUSEWICZ

Software developer, MSc

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in michalmartusewicz

EXPERIENCE

Data scientist

Trans.eu

Jul 2022 – Now Wrocław, Poland

- Building prediction models**
 - The goal was to predict the price of package delivery based on every data possible to get
 - connecting data from Snowflake to AWS Sagemaker
 - Setting up custom code to train models
- Advising on the transition to the cloud**
 - Sharing knowledge to help the company in the transition from local architecture to AWS-based architecture
- Engineering data in snowflake**
 - Gathering data from multiple sources and generating features for models

Data engineer

Bolt Financial, Inc (formerly Tipser AB)

Jan 2021 – Jun 2022 Wrocław, Poland

- Data classification training pipeline**
 - The goal was to build models recognizing product genders and categories
 - Creating and updating AWS lambdas in C# and Python
 - Creating and upgrading pipelines using AWS step function
 - Supervising data labeling
 - Training model in AWS Sagemaker and preparing model evaluation reports
- Other work**
 - Creating and maintaining production API in Python and C#
 - Researching papers for hackathons
 - creating dashboards in Kibana
 - Conducting coding interviews

Software developer and data scientist

Cloudflight Germany GmbH (formerly Catalysts Deutschland GmbH)

Jun 2018 – Nov 2020 Frankfurt, Germany

Projects:

- Airport luggage recognition and measuring system:**
 - The project goal was to embed in airport security gate a system which automatically measures passenger's luggage - to avoid cabin luggage space overloading
 - Creating proper image dataset

MY LIFE PHILOSOPHY

"It has never been so, that somehow it was not."

EDUCATION

MSc in Computer Science

University of Wrocław

2019–2021 Wrocław, Poland

Thesis grade: 4.5, Studies grade: 4.5

BEng in Computer Science

University of Wrocław

2015–2019 Wrocław, Poland

Thesis grade: 4.5, Studies grade: 4

English course

Atlantic Language School

2015 Galway, Ireland

Upper-intermediate level

Laureate of Regional Physic Olympiad

2015 Wrocław

Secondary School no. III

The special university math program

2012–2015 Wrocław

COMPUTER SKILLS

Advanced level

Python Pandas NumPy Matplotlib
Django ML NLP Linux/macOS
Git

Medium level

C# AWS PyTorch Docker LATEX
Lua C/C++ Ruby PostgreSQL Bash
HTML + CSS + JavaScript
Bootstrap Snowflake SQL

Basic level

Java OCaml Julia Nim Haskell
Prolog

- Image recognition (Python, TensorFlow, object detection API, Docker)
- Creating point clouds using Intel rgb-d cameras and regular rgb cameras (PyRealSense, NumPy, matplotlib and other)
- **ShowMySize app by Twinstar**
 - The project goal was to create a backend to an app that measures the body's size and suggests suitable clothes
 - Creating backend of the app (Django, REST API for Django, Postman for testing)
 - Working with Amazon Rekognition
- **Improving image preprocessing for Austrian social insurance company:**
 - The goal was to improve mobile images of invoices and get better text recognition accuracy
 - Researching for different computer vision techniques
 - Using Google Tesseract OCR

Web Administrator

Foundation for the Development of Wrocław University of Economy

📅 2016–2017

📍 Wrocław, Poland

Reformatting web page hosted on WordPress with additional js customization (HTML, CSS, JS)
<http://fundacja.ue.wroc.pl/>

Internship

Parker Hannifin Manufacturing Poland

📅 Sep 2015

📍 Siechnice, Poland

Lean & Production internship

MSC THESIS

Lattice extending strategies to correct results of automatic speech recognition system

The subject of the thesis was to improve the output of the automatic speech recognition system by adding more edges to the lattice. This thesis was part of the system which won the PolEval contest. The publication is available here:

<http://poleval.pl/files/poleval2020.pdf>

BENG THESIS

Agile development of an application supporting the tube fittings manufacturing management

The subject of the thesis was creating a project and managing it using the Scrum development framework and Unified Modeling Language. As a result of the project, an application supporting production management in Parker Hannifin Manufacturing Company in Siechnice was designed, implemented, and installed

LANGUAGES

Polish



English



German



UNIVERSITY COURSES

Neural Networks and Deep Learning

NLP

Algorithms for Big Data

Machine Learning

Advanced Distributed Algorithms

Evolutionary algorithms

Data mining

Computational photography

OTHER PROJECTS

Organizing Catalysts/Cloudflight Coding Contests

[Open programming contest for university and high school students](#)

The contest is used as a promotion and recruiting tool in Cloudflight/Catalysts. I have co-organized 3 events, with more than 70 people per event

Automated Sudoku checker

bit.ly/sudoku_checker

The project involved neural nets to recognize handwritten digits and then finding errors

Compiler in prolog

bit.ly/prolog_compiler

The goal was to create a compiler of artificial language (based on algol68) on a simple processor. It was created in prolog

INTERESTS

New / emerging technologies

Ballroom dancing

Running

Hiking

Skiing

Sailing

Traveling

I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the European Parliament's and Council of the European Union Regulation on the Protection of Natural Persons as of 27 April 2016, with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (Data Protection Directive)