

MICHAŁ MARTUSEWICZ

Software developer, BEng

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Wrocław, Poland

in michalmartusewicz

EXPERIENCE

Data engineer

Tipser

i Jan 2021 - Now

Wrocław, Poland

Building text and image classification pipeline

Creating pipelines and solutions for the classification of both images and text. Using AWS SageMaker for classification and AWS Step Functions for training pipeline.

Software developer and data scientist

Cloudflight Germany GmbH (formerly Catalysts Deutschland GmbH)

Jun 2018 - Nov 2020

● Frankfurt, Germany

Projects:

• Developing software for special satellites orbits types

- The project goal was to simulate and possibly lunch satellites on highly elliptical orbit - to have a constant vision on north and south poles
- Simulating satellite orbits (GMAT, OreKit, Python, Docker)
- Live tracking and visualization (NumPy, MatPlotlib)
- predicting possible collisions

• 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
- Image recognition (Python, TensorFLow, object detection API, Docker)
- Creating point clouds using Intel rgbd cameras and regular rgb cameras (PyRealSense, NumPy, matplotlib and other)

• ShowMySize app by Twinster

- 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

• Connecting two databases without common identifiers:

- The goal was to connect a product database and not normalized database with product reviews
- Using various NLP (natural language processing) approaches

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

Mat-mat class

2012-2015

Wrocław

Regional Science Olympiad

"zDolny Ślązak"

= 2012

Wrocław

Laureate in Physics and Biology Finalist in Mathematics, Chemistry and Geography

LANGUAGES

German



- Created web app for presentation the results in 3 days (Django, Bootstrap)
- Managing summer interns for a short time

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

UNIVERSITY COURSES

Neural Networks and Deep Learning Algorithms for Big Data

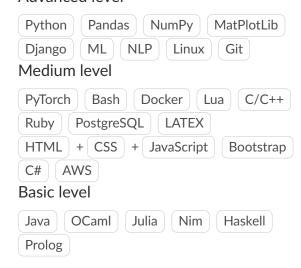
Machine Learning Advanced Distributed Algorithms

Evolutionary algorithms Data mining NLP

Computational photography

COMPUTER SKILLS

Advanced level



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

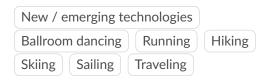
The project involved neural nets to recognize handwritten digits and then finding errors

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



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)