

## SUMMARY

- MS in Computer Science and Artificial Intelligence at University of Warsaw with high grades.
- Founder of 2 web startups (USD 1M of VC and angel investors' funding).
- Founder of machine-learning consultancy company.
- Proficient in vast number of programming languages.
- Strong knowledge in architecture design, dev-ops, continuous integration and deployment, big data environments and artificial intelligence.
- Strong algorithmic, mathematical and team-working skills.
- Aiming for technological excellence, broadening business skills and the possibility of implementing solutions on a large scale in real problems.

## EXPERIENCE

### **Senior Data Scientist (Expert), Atos**

**Feb 2018 — Present, Bydgoszcz, Poland**

Leading 8-person international Data Scientist team in 30-person project aiming for transformation of Cyber Security data analysis processes to detect threats in a global scale. I am currently holding an Atos Expert title (only 500 people out of 100 employees).

#### *Accomplishments:*

- Designed architecture for up-to-date data collection and ingestion from thousands of data sources (over 1 petabyte of data analyzed monthly).
- Designed and lead the research of over 100 machine learning models for cyber threats including corrupted / compromised accounts, infected hosts, virus and malware proliferation, insider network attacks using backdoors, anomalies in system users' and machines' behaviour, mailing phishing.
- Performed several setups for Hadoop ecosystem clusters based on Cloudera distribution together with configuration and code adjustment for tools like: Spark (PySpark), StreamSets, Kafka, HBase, Hive, Hue, Impala, ZooKeeper and Oozie.
- Researching GPU and distributed frameworks for high-speed model inference.  
Technologies used: Spark 3.0, Tensorflow, Dask

## **Full Stack Software Developer (Lead), Trndz.ai**

Oct 2017 — Oct 2018, Oslo, Norway

Developed website and technology stack for collecting and analysis of real-time sensory data for an innovative Norway start-up.

### *Accomplishments:*

- Designed from scratch the entire application consisting of 10 microservices, which supported 17 factories.  
Technology stack: JavaScript (Node.js, React), Cassandra, Redis, RabbitMQ, Docker, AWS, GitLab CI.
- Designed a pipeline which processes data collection from 1200 machines every minute.
- Built visualization tools to correlate sensory data from various additional sources (weather data, sensor web controllers, manual input streams).
- Designed an API that allows clients to download and modify data from their sensors.
- Built several machine learning models for anomaly alerting using SMS and email notifications.

## **Full Stack Software Developer, Arowana**

Dec 2016 — Dec 2017, London, UK

One of the first programmers in a newly founded start-up providing artificial intelligence solutions for insurance industry.

### *Accomplishments:*

- Created website frontend, backend and decision engine microservices.  
Technology stack: JavaScript (Node.js, Vue.js), Clojure, PostgreSQL, Docker, AWS, GitLab CI.
- Developed several solutions for collecting and preprocessing insurance data from multiple sources.
- Designed collection and pipeline processing of data for users visiting the site.
- Designed end-to-end machine learning pipeline for recommending price of insurance products.

## **Software Engineer, Sigmoidal**

Aug 2017 — Aug 2017, USA

Helped a 4 person team in creating a solution for massive processing of large companies dataset for US financial company client.

### *Accomplishments:*

- Build a tool for preprocessing almost 250 GB of data and uploading it to Amazon Web Services infrastructure.
- Designed Elasticsearch database and optimized for quick searching and query scoring.

### **Full Stack Software Developer, Brainly**

Jan 2012 — Mar 2017, Warsaw, Poland

#### *Accomplishments:*

- Designed backend and frontend architecture and managed their implementation.  
Technology stack: Python (Django), JavaScript (React), MySQL, Elasticsearch, Docker, GitLab.
- Implemented several techniques for recommending and matching job offers with users using several machine learning techniques.
- Designed tools for analyzing users behavior and segmenting them.
- Supervised work on several tools like: self-designed system for sending emails, payment system, CV generator, employee search engine.
- First technical person in company, led 5 person IT team (25 employees overall).

### **Software Engineer, CoCoNet AG**

March 2014 — July 2014, Warsaw, Poland

Worked in ~15 person DevOps Team in banking software company, programming tools to increase performance of DevOps Team.

#### *Accomplishments:*

- Built a program that was aggregating project builds' statistics from CI tools and creating a report, which automated daily routine for many people in team.
- Automated matching project version with appropriate translation package to download, which saved ~50MB files from being often updated and stored in repository.

[Ask me if you want to see my earlier experience...](#)

## COURSES

- Jan 2017 - Artificial Intelligence Nanodegree Program by Udacity
- Jan 2017 - Self-driving Car Nanodegree Program by Udacity
- Jan 2017 - Machine Learning by Coursera (maximum score)
- Oct 2016 - Deep Learning by Udacity
- Oct 2016 - Introduction to Computer Vision by Udacity
- Jan 2015 - Data Scientist's Toolbox by Johns Hopkins University (with distinction)
- Dec 2014 - R Programming by Johns Hopkins University (with distinction)
- Jun 2013 - Functional Programming Principles in Scala by École Polytechnique Fédérale de Lausanne
- and many more...

## ACHIEVEMENTS

- Mar 2016 - 5th place on Amazon Alexa Hackathon at University of Warsaw
- Oct 2009 - Winner of statistical-mathematical contest organized at Warsaw School of Economics (won 1 week internship in PwC subsidiary in Warsaw)
- Several distinctions in Polish mathematical contests during secondary and high school

## EDUCATION

### University of Warsaw

#### Master's Degree in Computer Science — September 2017

I was pursuing sub-faculty in Artificial Intelligence and Natural Language Processing. I achieved highest marks in most of the lectures.

My master thesis topic is "Machine learning solutions for self-driving cars".

#### Bachelor's Degree in Computer Science — September 2015

### Warsaw School of Economics

#### Bachelor's Degree in Corporate Finance — June 2013

## TECHNICAL STRENGTHS

- Programming languages:
  - Very good Python, Java Script
  - Good Java, C++, C#, C, Scala
  - Basic R, Haskell
- Machine learning tools: TensorFlow, Keras, Theano
- Data processing tools: Spark, Hadoop, ROS
- Web frameworks: React, Django, Vue
- Databases: Redis, Cassandra, MySQL, PostgreSQL, MongoDB, Elasticsearch
- DevOps tools: Git, Docker, AWS, JetBrains IDEs

## LANGUAGES

- English - C1 / Full professional proficiency
- Polish - Native

## INTERESTS

machine Learning, artificial Intelligence, trading, entrepreneurship  
all -board sports from skateboard to surfboard, squash, sailing, guitar