



ALEKSANDER ZAWALICH

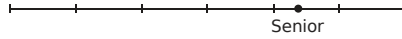
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ABOUT ME

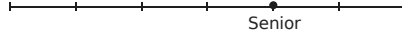
I am successfully putting a psychology degree to use while crunching data. Despite having plenty of experience with business environment, I strongly enjoy programming and solving technical challenges. I am also the enthusiast of cloud, machine learning and dockerization, as well as a lifelong learner. I am inviting you to have a look at my work experience and professional skills below.

KEY SKILLS

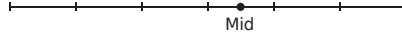
Git: 9 years of experience



Python: 7 years of experience



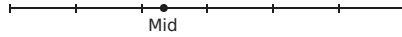
Docker: 5,5 years of experience



Kubernetes: 5 years of experience



Google Cloud Platform: 2,5 years of experience



COURSES

11.2024 **AI Devs 3**

now **Kubernetes Masters**
• Entrypoint, DevOps, SecOps, Developer Path

now **Druga Nowoczesnego Architekta**

02.2022 **Docker Masters**
• DevOps Path

01.2022 **Docker Masters**
• Entrypoint Path
• Backend Path

11.2021 **Google Cloud Platform**
• Architecting with Google Compute Engine

10.2021 **Google Cloud Platform**
• Architecting Hybrid Cloud Architecture with Anthos
• ML Pipelines on Google Cloud
• MLOps Fundamentals on Google Cloud Platform

CERTIFICATES

2011 **University of Cambridge**
• Certificate in Advanced English

2010 **University of Cambridge**
• First Certificate in English

INTERESTS AND HOBBIES

Motorsport
Karting, Formula 1.

Psychology
Sport, Internet, Social Media, Psychotherapy.

Nonfictional literature and movies

REFERENCES

- Published on LinkedIn,
- Available upon request.

DATA PROCESSING CLAUSE

I agree to the processing of personal data provided in this document for realising the recruitment process pursuant to the Personal Data Protection Act of 10 May 2018 (Journal of Laws 2018, item 1000) and in agreement with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation)

EXPERIENCE

01.2023 - Now

BNP Paribas Bank Polska S.A. | Lead Software Developer (MLOps)

- Transforming the following applications/frameworks to be Kubernetes-native, and converting them to fulfill production/cloud-based Continuous Integration/Deployment software engineering principles:
 - Jupyter Hub,
 - Jupyter Lab,
 - Hue,
 - MLFlow.
- Taking the technical leadership and coordinating projects within: Architect, Machine Learning Engineer, DevOps, Administrator and Developer Squads,
- Identifying steps necessary to correctly implement the solution by breaking down/decomposing requirements or architectural blocks,
- Mentoring and sharing knowledge/experience/technical skill with team members in order to grow their potential.

05.2021 - 12.2022

BNP Paribas Bank Polska S.A. | MLOps Engineer

- Executing and improving comprehensive AIOps strategy for productization of machine learning models in alignment with CrispML:
 - Creating CI/CD deployment processes with: Openshift OKDv4, Helm, Ansible, Nexus, Docker, GitLab CI/CD, Skopeo,
 - Managing development flow of internal ML solutions and conducting their vulnerability scans with Nexus IQ Sonatype,
 - Consulting implementation of internal ML projects with AI Architects and ML Engineers.
- Leading workshops across Organization for both team members and new employees, expanding their knowledge of: product being in creation, AI, software development and git,
- Closely cooperating with Manager and Technical Architect on creating business/technical vision of the product, iteratively improving Scrum-based work organization/team effectiveness process,
- Orchestrating pySpark data processing pipelines with Airflow and Bash,
- Prototyping Python-based Proof of Concept solutions with: Dash, Kafka, unittest,

01.2020 - 04.2021

BNP Paribas Bank Polska S.A. | Data Science & Analysis Expert

- Designing and executing comprehensive ML-ops strategy for productization of machine learning models:
 - Creating CI/CD deployment processes with Openshift OKD v3 and Docker,
 - Implementing REST APIs with Flask,
 - Conducting machine learning experiments with mlflow.
- Writing and orchestrating data processing pipelines with pySpark and Airflow,
- Automating ETL and analytical processes with usage of IBM SPSS Modeler and Teradata SQL,
- Carrying out on-demand comprehensive quantitative analyses with Python analytical stack,
- Prototyping Python-based Proof of Concept solutions with: Dash, Kafka, unittest.

11.2018 - 12.2019

Sotrender | Data Scientist (In newly-formed R&D Team)

- Implementing various solutions within 5M PLN R&D Grant of NCBiR (using ML and NLP for supporting marketers' activities and social media campaigns),
- Building a production GCP-based environment for keyword extraction purposes with the usage of Docker, Kubernetes and Flask,
- Creating a NLP Python module for assessment of social media content, especially extraction and translation of special entities (e.g. emoji, smileys, markdown),
- Building a predictive ML model for estimating key indicators of brands' social media communication strategies - especially using xgboost, random forests and regression techniques in Python/R Environments (using numpy, scipy, pandas, statsmodels modules).

SIDE PROJECT

03.2024 - 06.2024

Fullstack MLOps Platform for Formula 1 | <https://f1-platform.zawalich.pl>

- Creating Kubernetes-native comprehensive and bulletproof solution serving end-users with Machine Learning components directly from the F1 world.
- The F1 Platform consists of 8 Components:
 - 4 for business-end users:
 - 2 Machine Learning Models for multimedia classification / recognition,
 - 2 interactive Dashboards for assessing performance / exploring historical data,
 - 4 backend ones:
 - model repository, object storage, metrics monitoring, metrics aggregation.
- Tech stack: Kubernetes, MLFlow, FastAPI, Dash, Gradio, PyGWalker, MinIO, Prometheus, Grafana, Helm, Git, Python.

EDUCATION

10.2013 - 07.2019

Warsaw International Studies in Psychology | Master of Arts University of Warsaw

- Thesis: Social stigma of clinical diseases in social media - a Twitter case for diabetes, epilepsy, schizophrenia and stroke.
- Warsaw International Studies in Psychology is a 5-year psychology master's program in English at the Faculty of Psychology of the University of Warsaw. It is a small scale program with a very diverse, international body of students and professors.