

Maciej Dzikowski



About Me

As a bioinformatics graduate with a background in software development and strong interest in a field of data analysis, I am eager to expand my expertise in these areas by gaining experience and new competencies. My academic background has equipped me with a wide skill set, which I am keen to contribute to teams that are innovating in the intersection of technology and data analysis.

Experience

04/2023 – 08/2023

Bioinformatics Data Engineer

Data4Cure, Inc.

- ❖ Evaluation and selection of ETL tools to streamline data integration processes.
- ❖ Enhancement and adaptation of software to meet new requirements.
- ❖ Development of a data validation tool to ensure data accuracy and integrity.
- ❖ Tech Stack: Python, Git, Airflow, Kedro, GitHub.

10/2021 – 09/2023

Scientific Researcher

National Science Centre Poland

- ❖ Scholarship funded under OPUS 20 research grant from the Polish National Science Centre.
- ❖ Development and evaluation of a novel amino acid substitution matrix for low complexity protein fragments.
- ❖ Tech Stack: Python (data science and testing libraries), Git, Docker, Airflow, GitLab.

01/2020 – 09/2022

Full Stack Developer

LekSeek Polska

- ❖ Development and maintenance of MyDr EDM (formerly: drWidget) program to keep Electronic Health Records and management of a medical facility.
- ❖ Responsible for introducing new features, finding and resolving bugs, code review, E2E and backend testing.
- ❖ Tech Stack: Python, Django, Git, PostgreSQL, Docker, JavaScript, HTML, CSS, Cypress, Node.js, GitLab.

07/2019 – 09/2019

Biometrics and Information Intern

AstraZeneca Poland

- ❖ Engaged in the statistical analysis and interpretation of clinical trial data.
- ❖ Acquired knowledge of Good Clinical Practice standards, ensuring adherence to ethical standards in data handling and research conduct.

04/2019 – 06/2019

Frontend Intern

LTB, Faculty of Chemistry, University of Warsaw

- ❖ Development of an interactive feature for the visualisation of biological sequence profiles.
- ❖ Tech Stack: Python, JavaScript, HTML, CSS.

Bioinformatics /

Professional Skills

Programming Languages:

- ❖ Python
 - ◆ web frameworks: Django, Flask
 - ◆ data science libraries: NumPy, Matplotlib, Seaborn, Pandas, Scikit-learn
 - ◆ deep learning frameworks: TensorFlow, PyTorch
 - ◆ testing frameworks: unittest, pytest, Selenium
- ❖ R (ggplot2, dplyr, Shiny, Plotly)
- ❖ familiar with: JavaScript, Java, C++

Development and Operations:

- ❖ Git
- ❖ Bash
- ❖ Cypress
- ❖ Docker
- ❖ Kubernetes
- ❖ Apache Airflow

Databases:

- ❖ PostgreSQL
- ❖ MySQL
- ❖ SQLite
- ❖ Neo4j

Cloud Services:

- ❖ Google Cloud Platform (GCP)
 - ◆ BigQuery
 - ◆ Looker
- ❖ Oracle Cloud

Technical and Collaborative Tools:

- ❖ Google Workspace
- ❖ MS Office
- ❖ Jupyter Notebook
- ❖ LaTeX
- ❖ Markdown

Soft Skills:

- ❖ Conscientiousness
- ❖ Adaptability
- ❖ Teamwork
- ❖ Patience
- ❖ Creative thinking
- ❖ Communication

Education

10/2021 – 12/2023	Master's degree in Bioinformatics and Systems Biology Faculty of Mathematics, Informatics, and Mechanics University of Warsaw
10/2018 – 09/2021	Bachelor's degree in Bioinformatics and Systems Biology Faculty of Mathematics, Informatics, and Mechanics University of Warsaw

Certificates

- ❖ Create ML Models with BigQuery ML (Google Cloud Skills Boost, 2024)
- ❖ Insights from Data with BigQuery (Google Cloud Skills Boost, 2024)
- ❖ Introduction to Data Science in Python from University of Michigan (Coursera, 2020)
- ❖ Python Data Visualization from Rice University (Coursera, 2020)
- ❖ Quantum Computing and Programming, Bronze (QWorld, 2020)

Languages

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|-----------|---------|
| ❖ English | B2 / C1 |
| ❖ German | A2 |
| ❖ Polish | native |

Conferences

- ❖ 2nd ML4NGP-REFRACT Training School on Computational Tools to Study Non-Globular Proteins
- ❖ 1st ML4NGP meeting on Machine Learning and Non-Globular Proteins
- ❖ 1st ML4NGP Training School on “Protein aggregation, intrinsic disorder and phase separation in the era of machine learning”