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

Bioinformatics /

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

Professional Skills

Programming Languages:

- Python
  - web frameworks and ORMs: Django, Flask, FastAPI, SQLAlchemy
  - 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

- 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"