Mikołaj Garbowski

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https://github.com/mGarbowski

Education

Faculty of Electronics and Information Technology
Warsaw University of Technology

BSE in Computer Science   2022 - 2026 *(planned)*

- Specialization: Artificial Intelligence
- Scholarship program *studia id* 2023-2025
- Bachelor's thesis: *Training Data Augmentation for Improving Face Recognition Quality in Real-World Conditions*

Experience

Hermes Data & Software Solutions | Warsaw, Poland   03.2025 - present

- Fullstack Developer
- Implementation of CRM system for business center
- TypeScript, React, Python, Django REST Framework, PostgreSQL

Ringier Axel Springer Polska | Warsaw, Poland   2024.07 - 2024.09

- Fullstack Developer (intern)
- Developed a production ready photo editor web application
- TypeScript, NodeJS, React, AWS

Sages | Warsaw, Poland   2021.07 - 2021.09

- Junior Support Engineer
- Worked on the deployment of Omega-PSIR system for academic institutions.

Skills

Foreign languages: English C2, French A2.

Python: Scientific and ML stack (`numpy`, `scikit-learn`, `PyTorch`, `transformers`, `Weights & Biases`), Web frameworks (`Django`, `Django REST Framework`, `FastAPI`).

TypeScript/JavaScript: `React`, `Redux`, `NodeJS`.

Java: `Spring Framework`.

Other languages: `C++`, `Rust`.

SQL and NoSQL databases: `PostgreSQL`, `ChromaDB`.

DevOps: `Git`, `Docker`, `CI/CD`, `Terraform`, `Ansible`, `Azure`, `Linux`, `Bash`.

Other: Machine learning, deep neural networks, language models, NLP, optimization algorithms, software architecture and engineering, modeling (UML, BPMN).

Projects

Olivia CRM

Implementation and development of CRM system for business center.
TypeScript, React, Python, Django/DRF, PostgreSQL   Hermes Data & Software

Photo Editor

Front-end photo editing application based on Canvas API. Integrated with internal publishing system.
TypeScript, React, Redux, FabricJS.   RASP

Face Recognition Model Research ●

Research on techniques for improving convolutional neural network-based system quality using real-world data. Implementation of custom face recognition system.
Python, PyTorch, OpenCV, Dlib, Weights & Biases.   Bachelor's thesis, WUT

Predictive Model Microservice for Booking.com Clone ●

Data analysis, feature engineering, predictive model training and microservice implementation for hotel rating prediction.
Python, PyTorch, Scikit-learn, Pandas, FastAPI, Docker.   Group project, WUT

RAG Application for Lecture Notes ●

Chatbot based on Bielik language model, using Retrieval-Augmented Generation approach.
Python, HuggingFace, sentence-transformers, ChromaDB.   Individual project, WUT

Vehicle Evolution and Simulation ●

Desktop application with physics engine and evolutionary algorithm.
C++, ImGui, SFML, Box2D.   Group project, WUT

Plant Rendering Using L-Systems in OpenGL ●

Desktop application with GUI, 3D scene renderer.
OpenGL, Rust   Group project, WUT

Web Application Deployment on Public Cloud ●

Automated application deployment on Azure cloud.
Azure, Ansible, Terraform, Docker, Bash.   Group project, WUT