

JAN FRĄCKOWIAK

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SUMMARY

AI/ML Engineer with 4 years of experience building scalable ML modules, AI systems and full-stack applications across finance, healthtech, and startup settings. I combine academic rigor with practical engineering to deliver innovative, impactful solutions.

EDUCATION

PhD in Computer Science and Economics, University of Warsaw Oct 2025 – Present
Master of Science in Data Science and Business Analytics, University of Warsaw, WNE Oct 2022 – Sep 2024
GPA: 4.91 / 5.00 (Graduated with Honors, 5% Top Students)
Bachelor of Science in Computer Science and Econometrics, University of Warsaw, WNE Oct 2018 – Sep 2022
GPA: 4.63 / 5.00 (Very Good, 5% Top Students, Dean's List)

AWARDS

Best Master's Thesis Award, University of Warsaw, WNE Mar 2025
3rd Place Laureate, XXIX Polish Philosophical Olympiad Apr 2017
2nd Place, HackNation Hackathon December 2025
3rd Place, Warsaw Econometric Challenge May 2024
Sapere Auso Scholarship, City of Warsaw – for Most Talented Students Nov 2017
Scholarship, Advanced Technologies Foundation (FZT) May 2023

SKILLS

Languages Python, TypeScript, JavaScript, SQL, R, C++, Bash, Terraform
Libraries FastAPI, Falcon, Asyncio, SQLAlchemy, PySpark, H2O, PyTorch, Lightning, Scikit-learn, MLFlow, Langchain
Technologies Git, CI/CD, Docker, Kubernetes, IaC, Linux, NGINX, AWS, Azure, MSOffice

EXPERIENCE

AI Engineer Oct 2025 – Present
Bayer *Warsaw*

- Lead development of two competing serverless end-to-end agent systems for vendor contract investigations, making use of Terraform IaC, GraphRAG, metadata-aware RAG, database MCPs, LLM-powered metadata extraction and React for UI.
- Introduced an agent-based architecture that replaced IF-ELSE and Kubernetes workflows, **reducing AWS costs by 10x**.

Technical Co-Founder, AI Engineer Dec 2024 – Oct 2025
Immacu *Berlin/Warsaw*

- Developed a full-stack MVP for an AI recruitment platform for universities, reducing single review time **from 1.5h to 10m**.
- Built LLM services on AWS, including Lambda extraction pipelines and a text-to-sql agent over MySQL.
- Architected a scalable, secure AWS/Azure serverless platform for a FastAPI + React app ([Demo on YouTube](#)).

Data Scientist, Python Developer Oct 2023 – Feb 2025
Data Juice Lab *Warsaw*

- Led team-wide migration from SAS to PySpark and delivered department-level Git/PySpark trainings for BNP and ING banks.
- Designed and deployed scalable ML pipelines on Spark for automated model training/selection/deployment (H2O, ONNX)
- Built end-to-end model governance tooling (quality, explainability, calibration, data profiling) and optimized core Spark-DB connections achieving a **50x performance gain** in routine workflows of entire department.

Python Developer Dec 2022 – Jul 2023
Solvemed *San Francisco/Warsaw*

- Collaborated with renowned scientists from Stanford, Harvard, Oxford and Cambridge Universities.
- Created a custom, computer vision supported video labelling tool, saving **\$20,000/year** in software licensing costs.
- Validated and monitored the performance of computer vision models based on YOLO and SAM.

Fund Dealing Services Intern Aug 2020 – Jan 2021
BNP Paribas Securities Services *Warsaw*

- Implemented advanced Excel functions and VBA macros to analyze investment fund financial statements

SELECTED PROJECTS

ML for Early Sepsis Diagnosis. Master's thesis evaluating NN & GBT models for sepsis prediction, balancing predictive power, explainability, and cost-effectiveness for clinical deployment. Thesis **awaits publication in the Journal of Health Economics**.

NDA Sanity Check. Co-developed a web application for automated NDA review using prompt engineering and RAG. App was deployed on Kubernetes cluster and **presented at MIM UW & IBM conference**.