Jakub Pacocha

Lead AI Engineer / Bydgoszcz, Poland

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SUMMARY

Full-stack AI engineer with 6+ years of experience building production data systems, RAG architectures and containerized ML infrastructure.

EXPERIENCE

Lead AI Engineer - **HERE Technologies** / AI Systems — Nov 2026 – Present

- Architecting scalable AI data services for analytical and intelligence workflows.
- Building resilient production pipelines and containerized microservices with modern cloud infrastructure.

Focus: Python, AI Engineering, AWS, SQL, LLMOps, RAG

AI Engineer / Data Scientist - **iQor** / AI Systems — Mar 2023 – Oct 2026

- Architected production-grade Retrieval-Augmented Generation (RAG) systems and optimized high-throughput vector search performance.
- Led the architectural transition toward agentic LLM workflows, containerized APIs (FastAPI) and AWS cloud deployment.
- Built and maintained custom Model Context Protocol (MCP) servers, MCP-powered applications and autonomous agent workflows to standardize enterprise tool integrations.
- Executed end-to-end data enrichment, analysis and executive dashboarding pipelines to drive data-informed operational decisions.
- Conducted market research on emerging AI tooling and shaped the strategic vision and internal policies for AI adoption.

Focus: Python, AWS, LLMOps, RAG, Vector Databases, FastAPI

Data Scientist - **O-I** / Predictive Analytics & MLOps — Jul 2021 – Feb 2023

- Developed, deployed and maintained automated machine learning pipelines for internal global stakeholders on large-scale tabular sales and cost datasets.
- Streamlined feature engineering and model lifecycle monitoring on Microsoft Azure.

Focus: Python, Azure, MLOps, SQL

Spatial Data Analyst - **Heksagon Research** / Civic & Municipal Geoinformatics — Apr 2021 – Jan 2022

- Analyzed complex spatial and demographic datasets, producing high-precision visualizations and analytical reports for private, civic and municipal clients.

Focus: Python, GIS, SQL, Spatial Statistics

EDUCATION

Master of Science in Geoinformatics — 2022 – 2023

Adam Mickiewicz University in Poznań

Master's thesis focused on Deep Learning and Computer Vision (CNNs) applied to geomorphology and Earth sciences; awarded funding under the ID-UB Study@research program.

Bachelor of Engineering in Geoinformation — 2018 – 2022

Adam Mickiewicz University in Poznań

Engineering thesis focused on creating a Python-based spatial network analysis tool for public transport.

Engineering in Geoinformation (Erasmus+ Exchange) — 2019 – 2020

Eötvös Loránd University (ELTE), Budapest

International coursework in spatial data modeling, cartography and geocomputation.

TECHNICAL SKILLS

AI & Machine Learning: LLM Orchestration & RAG, Vector Stores & Embeddings, Agentic Workflows, Prompt Engineering, Computer Vision (CNNs), Classical ML

Backend & Infrastructure: Python (FastAPI, Flask), Docker & Containerization, REST API, SQL & relational databases, C# / .NET utilities, React & modern web

Cloud & DevOps: Amazon Web Services (AWS), Microsoft Azure, Linux administration, MLOps & telemetry

Spatial & Civic Systems: GIS & Geocomputation, Network Analysis, Municipal Data Systems, Geomorphological Vision Models