

I'm a driven AI Engineer with experience across agriculture, medtech, fintech, and e-commerce, applying a range of ML techniques to real-world problems. While I focus on ML and GenAI, I bring a strong backend and software architecture background, and thrive in product-oriented, client-facing environments where pragmatic solutions matter.

Work Experience (6+ years)

Senior AI Engineer (Full Time) Product team	Zowie Remote, Poland	Jan 2025–Present
<ul style="list-style-type: none">Reduced client onboarding data requirements by 95% by implementing a GenAI-based intent routing system.Prevented nearly all rollbacks in prompt-based services by architecting and deploying a product-wide offline evaluation framework.		
ML Lead, Senior ML Engineer (Full Time)	ReasonField Lab Remote, Poland	2022 - Present
<ul style="list-style-type: none">Directed the development of an open-source Explainable AI library in Computer Vision, leading a team of 4 ML Engineers.Directed a 3-person team over 5 months to build a RAG-based internal chatbot with access to Scala documentation.Increased ML & GenAI-related sales by 50% by designing and executing a cross-functional strategy covering marketing, technical positioning, and sales team enablement.Delivered insights across agriculture, e-commerce, medtech, logistics, customer service, and fintech sectors through PoC projects using CNNs, GNNs, and LLMs.Shared learnings publicly through 15+ blog posts and talks at 4 national conferences (e.g., Data Science Summit, Warsaw IT Days).		
ML Full Stack Engineer (Part Time)	Famateq/QEF Electronics Remote, Poland	2022 – 2024
<ul style="list-style-type: none">Scaled vegetable sorting software (C++, Python, Vue.js) from a single machine to multi-unit deployments with minimal HPC infrastructure and cost.Enhanced ML observability in production by integrating GradCAM into live traffic with minimal processing overhead.~15h/week alongside the full-time job at ReasonField Lab.		
Senior ML Engineer (Full Time)	QEF Electronics Utrecht, Netherlands	2020–2022
<ul style="list-style-type: none">Leading research & development of the Computer Vision side of projects in vegetable counting solutions.Decreased error rate of the model by 15% via R&D of model architecture(e.g. ConvNext, ResNets) and training methods (500+ models trained).Implemented a comprehensive TensorRT optimisation pipeline, which increased throughput by 100% for batched variable-size input.Improved data pipeline to decrease training time by 40%.Implemented various model interpretation tools(e.g. UMAP, GradCam) to understand errors in training data.Moved production deployment from custom code to a professionally configured Triton edge server.Introduced a 25% improvement in the throughput of images by implementing a custom shutter mechanism in C++ for GeniCAM cameras.		
Deep Learning Fellow (Part Time)	Fellowship.ai Remote, Netherlands	Spring 2020
<ul style="list-style-type: none">Implemented a self-supervised algorithm called FixMatch as an E2E service in AWS for easy and quick use for ongoing Computer Vision projects.~20h/week alongside MSc studies.		

Software Developer (Part Time)

Efinity
Warsaw, Poland

2016–2018

- Implemented various insurance offerings for clients across the World.
- ~24h/week alongside BSc studies.

Education and Certifications

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| • M.Sc. Computer Science , Delft University of Technology, Netherlands. | 2018–2020 |
| • B.Sc. Teleinformatics , Warsaw University of Technology, Poland. | 2014–2018 |

Technologies and Languages

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- Languages: Python, C++, JavaScript
 - Frameworks: HuggingFace, PyTorch, Tensorflow, Ray, ZenML
 - Technologies: MySQL, Postgres, Mongo, AWS, GCP, Docker

Certificates

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- AWS Solution Architect Associate
 - AWS ML Speciality
 - HF Agents Certificate
 - Tensorflow Advanced Techniques

Publications and Conference Presentations

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- ICPR 2020: Tilting at windmills: Data augmentation for deep pose estimation does not help with occlusions
 - Warsaw IT Days 2023: Importance and Role of ExplainableAI in developing deep neural networks
 - DSS 2023 ML: What if we used tricks from Recommendation Systems to Face Recognition?
 - DSS 2023: Interchangeability of Why - Insight into subjectivity of XAI for Computer Vision
 - DSS 2024: Watermarking 101 - how you can detect generated data

Projects

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- **Secure Agent**: Built a simple agentic workflow integrating 4 tools (web search, RAG, DB search, file editing), then systematically attacked it using techniques like prompt poisoning, injection, and misuse. Evaluated state-of-the-art defences against successful attacks, highlighting their practical strengths and limitations.
 - **Prostate Cancer Metastasis Detection Challenge**: Trained multiple models using Multi-Image Learning and Teacher–Student paradigms, selectively masking easy examples to enhance learning efficiency. Utilised Python, PyTorch, MONAI, and Ray for scalable preprocessing, training, and optimisation.
 - **Harvest Prediction System**: Built a state-of-the-art ML system using multimodal data (images, sensor feeds, weather) to predict harvest yield with <10% error on 2-day forecasts. Accelerated labelling with SAM2 and managed the pipeline using Python, PyTorch, GCP, and Label Studio.
 - **Technical blogging** on [Medium](#) and [the Softwaremill blog](#).

Interests

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- Sports enthusiasts: windsurfing, skiing, basketball.
 - Bookworm: non-fiction, technical books, but also huge LoTR nerd.