

# Mateusz Winiarek

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## EXPERIENCE

### Humalike

Founding Researcher — LLM, Python

- LoSoNA: A Benchmark for Local Social Norm Adaptation in Group Conversations

May 2026 – Present

Barcelona, Spain

### Sentinel Eagle

Machine Learning Researcher — CV, Python, PyTorch

- Building software for **Non-GNSS** drone navigation.

Feb. 2026 – May. 2026

Warsaw, Poland

### NVIDIA

Software Engineering - AI Intern — Python, PyTorch

- Developed and maintained **evaluation platform** – standardized interface to latest **LM benchmarks**.
- Researched and implemented an algorithm for **error clustering**, significantly improving the identification of related issues.

Mar. 2025 – Jan. 2026

Warsaw, Poland

### MIM Fertility

Bachelor Thesis Intern — CV, Python, PyTorch

- **Follicle Assessment** in the ovary based on its morphology using **deep neural networks**.
- Developed a custom Vision Transformer (**ViT**) pipeline for evaluating **models** and **dataset** augmentations.

Nov. 2024 – Jun. 2025

Warsaw, Poland

### Undisclosed Hedge Fund

Machine Learning Engineering Intern — LLM, Python, Hugging Face

- Researched and implemented a repository-level tool for **unit test generation**.

Nov. 2024 – Jan. 2025

Remote, Singapore

### Taiwan Semiconductor Manufacturing Company

Software Engineering Intern — NLP, Python, PyTorch, Hugging Face

- Researched and surveyed **LLM inference optimizations** for efficient **VRAM** usage and **throughput**.

Jul. 2024 – Sept. 2024

Hsinchu, Taiwan

## EDUCATION

### University of Warsaw

Master of Machine Learning

- Ranked **2nd** (out of 180 candidates) in entrance exam for admission.

Oct. 2025 – Jul. 2027

Bachelor of Computer Science

- **Diploma grade: 5/5**
- Represented university at:
  - **2024 ICPC Central Europe Regional Contest**.
  - **2024 and 2023 ICPC Polish Collegiate Programming Contest**.
- Rector's scholarship for the **top 7%** of students in year 2023/2024.

Oct. 2022 – Jul. 2025

## EXTRACURRICULAR

**1st place** at Warsaw edition and **Honorable mention (top 5 globally)** at **ElevenLabs Worldwide Hackathon**.

**1st place** at **Goldman Sachs** Warsaw Engineering Hackathon 2025 – Quant Challenge.

**1st place** and **ElevenLabs** bounty for best use of **Voice AI** at **AIEngine** Hackathon 2025 - AI Video Ad Maker.

**3rd place** at **AlgoTrade 2025** and **6th place** at **AlgoTrade 2026** (out of 300 international participants).

**4th place** and the **Bronze Award** at **Huawei Tech Arena Poland 2023** - Multimodal File Search.

**Finalist (top 3)** at **Warsaw.AI** Hackathon 2025 – AI Event organizer.

**Finalist (top 3)** at **HackNation PL** Hackathon 2025 – AI-powered platform for reporting workplace accidents.

**Finalist (top 5)** at **Goldman Sachs** Warsaw Engineering Hackathon 2024 – Quant Challenge.

**Finalist (top 8)** at **OpenAI x AI Tinkerers** Hackathon - **personalized learning platform** for technical interviews.

**Board Member** of the **Machine Learning Society** at **University of Warsaw**.

**Certificate:** Machine Learning Specialization — Stanford University, DeepLearning.AI

## PROJECTS

- Blob Store – Distributed (de)duplicated blob storage system, deployed on GCloud – **C++20**, **gRPC**, **Docker**, **Kubernetes**.
- Shared State Machine – **Rust** library for multiple clients to share data structures over the network.
- Hearts Network Game – **C++** client and server managing state and safely handling client disconnects at any time.
- BHL 2024 – Churn prediction model using **CatBoost** regressor with **Optuna-tuned** hyperparameters.

## LANGUAGES

- English: **C1**, Polish: **Native**, German: **A2**