# Vladimir Zaigrajew

Born on March 5th, 1998
Torun – Poland
Currently living in Wroclaw

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 WolodjaZ
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## Language Skills

- Polish – native
- Russian – near native
- English – C1 level

## Professional Skills

- Languages – Python (Mainly), C++, Java, SQL
- CI/CD – Github Actions
- Frameworks – Django, Redis, Postgres, MySQL, GIT, Docker
- AI and ML frameworks – Pytorch, JAX/Flax, OpenCV, scikit-learn, Pandas, Numpy, Matplotlib, Seaborn, Plotly, Dash, Grafana, , W&B
- Big Data frameworks – Hadoop, PySpark, Kubernetes (Lens), HPC (SLURM)

## Research Interests

- AI and Deep learning methods
- Computer vision
- Generative models

## Communication Skills

- Time-management
- Decision-making
- Teamwork and multitasking
- Team leadership and management.

## About me

My fortes include the ability and passion to learn and challenge myself to improve throughout my skill set. I started my computer science career in both academia and job as a backend developer consequently progressing to Machine Learning, which has become my work and research focus. Namely, I specialize in the computer vision domain, but I am also open to other frameworks.

I am experienced in teamwork, including managing cutting-edge projects in commercial object detection and tracking. I devote significant personal time to furthering my research and widening my purview. I am a communicative, sporty, tolerant and cooperative person.

## Education

2021 – 2022. **Master of Science in Artificial Intelligence, Wroclaw University of Science and Technology (WUST), Poland**

Thesis Title: Contrastive learning for multi-label classification (**accepted for NeurIPS 2022 Workshop**).
As a participant of AI Tech (government AI, ML and cybersecurity education project) I took part in WACV 2022 and ICLR 2022 international conferences.

2017 – 2021. **Bachelor of Science, Wroclaw University of Science and Technology (WUST), Poland**

Major: Computer Science
Minor: Applied Computer Engineering in Medicine
Thesis Title: Human activity recognition on the basis of changes of WiFi characteristics.

## Work Experience

2019 – 2022. **Computer Vision Researcher and Engineer**

**cognitivX S.A.**
- Researching optimal solutions for object detection and object tracking applying DeepStream SDK on an embedded device (NVIDIA Jetson Nano);
- Complying and managing the corporate dataset for object detection and leading the annotating group;
- Training object detection architecture and optimizing it for NVIDIA TensorRT;
- Preparing scripts in Deepstream SDK for production use with object tracking model;
- Hypertuning and optimizing object tracking and object detection models;
- Preparing framework in Python for object tracking using Microsoft Azure;
- Creating the structures for MySQL on Azure and preprocessing scripts;
- Implementing visualizations in Dash and metrics tracking in Grafana.

## Extracurricular activites

Dec 2022. Part of MLCommons community.

Oct 2022. Reviewed several papers for NeurIPS 2022 Workshop.

June 2022. Completed 8th PKO Night Wroclaw Half Marathon.

2014 – 2017. Represented school in inter-school soccer competition also captaining team during last year.