

# Damian Kantorowski

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Computer Science Master's student with a strong foundation in Python, AI and backend, seeking an entry-level role or internship to kick-start my commercial IT career.

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## Experience

- Apr 2023 – Present Programming Instructor, Coding Giants  
Conducting classes to develop children's and youth's competences in the field of computer science, programming in Python, C++, JavaScript, AI and cybersecurity
- Nov 2022 – Jan 2023 Security Officer, Solid Security  
CCTV surveillance monitoring and incident reporting.
- Aug 2021 – Dec 2021 Security Officer, Agencja Ochrony Osób i Mienia Zubrzycki  
Security and access control at the Eurocash distribution center.

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## Education

- Oct 2024 – Present Computer Science, Master's., Cardinal Stefan Wyszyński University in Warsaw  
Thesis "*Analysis and integration of automatic video captioning methods using object detection, transformer architectures, and large multimodal models*"
- Oct 2021 – Jul 2024 Computer Science, Bachelor's., Cardinal Stefan Wyszyński University in Warsaw  
Thesis "*Comparison of the efficiency of selected reinforcement learning algorithms based on card games*"  
Score: 4.75 / 5

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## Skills

Languages: Python, C++, SQL, HTML, CSS, JavaScript

ML / AI: PyTorch, Transformers, scikit-learn, Stable Baselines3, NumPy, OpenCV, TensorBoard

Domains: Computer Vision, NLP, Reinforcement Learning, LLMs, Object Detection

Data & Analytics: Pandas, Matplotlib, Jupyter Notebook, BigQuery, R

Web & Frameworks: Flask, REST API, PostgreSQL, SQLite

Dev Tools: Git, GitHub Copilot, Docker, VS Code, CI/CD, Google Antigravity, Agile (Scrum)

Infrastructure: Linux, Windows Server, GCP, VPS management, networking, IT hardware

Human Languages: Polish – native, English – advanced C1, Russian – beginner A1

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## Projects

**Automatic Video Captioning (Master's Thesis)** *PyTorch, Transformers, VLMs, Flask*  
Integrated object detection models with LLMs to generate video captions. Trained and evaluated computer vision models (Faster R-CNN, YOLOv8, RT-DETR) for accurate object detection on video datasets. Trained an MLP adapter to effectively align image and text embeddings. Developed Flask application to provide real-time descriptions of a smartphone camera's video feed.

**Character Interactions Analysis** *NLP, LLMs*  
Collaborated in a team environment to develop a system extracting and analyzing characters and their interactions in novels.

**Sports Calendar Web App** *Flask, PostgreSQL, Docker*  
Built and containerized a web application for managing and viewing sports events.

**Reinforcement Learning in Gymnasium and RLCard** *PyTorch, StableBaselines3, TensorBoard*  
Fine-tuned and trained PPO, SAC, TD3 agents in 3D Gymnasium environments. Fine-tuned and trained DQN, NFSP, DMC agents in RLCard environments. Evaluated performance and visualized training metrics.