# Jonas Vos

Data Science & AI · Year 3
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## PROFILE

Third-year Data Science & AI student at Breda University of Applied Sciences, specialising in building end-to-end intelligent systems across machine learning, data engineering, and full-stack development. Proven track record delivering production-grade AI across real client engagements, from predictive occupancy forecasting and LLM-powered recruitment tooling to computer vision pipelines in active research environments.

## TECHNICAL SKILLS

| | |
|---|---|
| **Languages** | Python (3yr) · SQL · JavaScript · LaTeX |
| **ML / AI** | Scikit-learn · TensorFlow/Keras · BERTje / RoBERTa · Computer Vision · NLP · Reinforcement Learning |
| **Engineering** | FastAPI · Docker · Azure · Airflow · Git / GitHub Actions · REST APIs |
| **Tools** | MLflow · Streamlit · Power BI · WandB · MongoDB |

## PROJECTS

### PASCO, Smart Campus Analytics
Feb – June 2026

*Breda University of Applied Sciences · Data Engineer & Data Scientist*

- Engineered a 112-column hourly ETL pipeline fusing cameras, WiFi, weather, and booking data; trained a Temporal Fusion Transformer delivering 7-day occupancy forecasts for 400+ weekly staff shifts.
- Resolved a 5-year sensor cold-start gap via an XGBoost proxy generator; deployed FastAPI endpoints and three Power BI dashboards targeting a >30% reduction in manual planning time.

### ObjectivEye, AI Recruitment Platform
2025 – 2026

*Breda University of Applied Sciences · Full-Stack AI Engineer*

- Built GPT-4o bias detection for Dutch job postings with ESCO skill matching and EU AI Act compliance; validated via 80 hand-crafted test cases achieving a 94% pass rate.
- Delivered an end-to-end Azure OpenAI + FastAPI + MongoDB + MLflow platform with real-time admin monitoring, token tracking, and prompt management.

### NPEC Computer Vision & Robotics
2025

*Netherlands Plant Eco-phenotyping Centre · Computer Vision Engineer*

- Developed a semantic segmentation model (F1: 0.85) and root system architecture extraction pipeline deployed within live phenotyping infrastructure at NPEC.
- Trained a reinforcement learning agent to control a liquid handling robot with precision dispensing, integrating PID controllers for fine-grained motion between waypoints.

## EDUCATION

### B.Sc. Data Science & Artificial Intelligence
2023 – 2027

Breda University of Applied Sciences

*Python · ML · deep learning · NLP · computer vision · cloud deployment · MLOps · software engineering*

### Havo, STEM Profile
2018 – 2023

D'oultremont, Drunen

*Computer Science as elective*

## WORK EXPERIENCE

### Shift Leader, Jan Linders Albert Heijn, Vlijmen
2019 – Present

Led and coached teams of up to 15 staff; applied structured problem-solving to operational scheduling and process optimisation under time pressure.

## LANGUAGES

Dutch (native) · English (fluent)