Warre Snaet

Junior Backend & Applied AI Engineer

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PROFESSIONAL SUMMARY

AI Engineering graduate with distinction who builds dependable Python backends, agent infrastructure, applied AI systems, and data pipelines. Experienced with FastAPI, PostgreSQL, computer vision, OCR, RAG, MCP, Azure ML, Docker, Kubernetes, GitHub Actions, and model evaluation. Seeking a junior backend, applied AI, or MLOps role where I can contribute and grow with experienced engineers.

TECHNICAL EXPERIENCE

AI & Software Engineering Intern | 2Ai IPCA | Barcelos, Portugal

February 2026 - June 2026

- Built a Python pipeline that reads echocardiographic DICOM studies, detects burned-in measurement regions, extracts values with OCR and image processing, and exports structured JSON.
- Designed resumable batch processing, validation queues, review tooling, ECG trace extraction, and cross-platform handoff documentation.
- Developed a source-video matcher with OpenCV ECC alignment and DICOM metadata, reducing one representative run from approximately 21 hours to 23 minutes.

Software Engineer, Paid Client Project | Apolloon 24-Hour Run System | Belgium

2026

- Built a local-first race operations platform with React, TypeScript, Express, Electron, SQLite, tRPC, and Socket.IO.
- Implemented operator workflows, live displays, imports and exports, LAN discovery, realtime synchronization, and replicated hot-standby failover for unreliable event conditions.
- Source code is client-confidential and cannot be shared publicly.

SELECTED PROJECTS

Semi-Supervised Plant Disease Detection in Rust

github.com/SnaetWarre/Research_Project_Rust_Semi-Supervised_Learning

- Built a Burn and Rust pseudo-labeling pipeline using 20% initially labeled data; the saved SSL checkpoint reached 94.90% top-1 accuracy and 94.74% macro F1 on 8,786 held-out images.
- Packaged approximately 916 KB model weights into an approximately 26 MB offline application and tested inference on an iPhone 12.

Financial AI Agent

github.com/SnaetWarre/Financial_AI_Agent

- In a two-person academic project, owned backend architecture, orchestration, MCP integration, PostgreSQL persistence, Docker delivery, tests, and most frontend integration.
- Built a six-service application with FastAPI streaming, RAG, typed MCP tools, React, ChromaDB, local Ollama inference, and explicit trade confirmation.

Azure ML Lifecycle

github.com/SnaetWarre/mlops-sports-ball-classification

- Implemented Azure ML data preparation, cloud training, MLflow-compatible tracking, model registration, FastAPI inference, Docker Compose, Kubernetes manifests, and GitHub Actions automation.

Athas Code Editor | Open-Source Maintainer and Contributor

github.com/athasdev/athas

- Merged contributions across React, TypeScript, Tauri, and Rust: C# support, image diffing, Linux UI, dynamic proxy ports, resource and memory leak fixes, and an LSP race-condition fix.

EDUCATION

Professional Bachelor in Multimedia & Creative Technologies | AI Engineering track

Howest University of Applied Sciences | September 2023 - June 2026 | Graduated with distinction

Relevant coursework: MLOps 18/20, Azure ML pipelines, MLflow, Docker, Kubernetes, CI/CD, computer vision, generative AI, reinforcement learning, backend development, and data engineering.

TECHNICAL SKILLS

Backend and data: Python, FastAPI, SQL, PostgreSQL, REST APIs, testing, pandas, NumPy

AI: Computer vision, OpenCV, OCR, RAG, MCP, model evaluation, PyTorch, Burn

Cloud and platform: Azure ML, MLflow, Docker, Kubernetes, GitHub Actions, Linux, Git

Additional: C#/.NET, TypeScript, React, Rust, Tauri

ADDITIONAL INFORMATION

Languages: Dutch (native), English (C1), French (B1-B2)

Other: Driving licence B; hospitality work since 2021 in fast-paced customer-facing teams.