

THIERRY MAESEN

Python & AI Developer | n8n Automation | AI Agents

CONTACT

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PROFESSIONEEL PROFIEL

38 years of professional experience supporting technological innovation. Python developer specialising in automation and artificial intelligence. I help Belgian SMEs automate business processes, reduce human error and leverage their data through AI. My unconventional career has given me a rare combination of Python/AI technical expertise and a deep understanding of companies' business needs. Open-source projects: 13 Python applications in production on GitHub (satellite detection, geospatial analysis, AI playlist generation, neural networks, customer reviews, credit-card fraud, HR predictions, cybersecurity, biomedical research, bioinformatics, materials science, AI reasoning and heritage RAG).

TECHNISCHE PROJECTEN & REALISATIES

- AI-Orbit-Intel-3D — Satellite anomaly detection with 3D visualisation (Python, geospatial REST APIs, real time).
- EO-Visual-Scout — Earth Observation image analysis for environmental monitoring (Python, Computer Vision, Gradio).
- NeuroTriple-Lab — Cross-platform neural network on Hugging Face (Python, FastAPI, Docker, PostgreSQL, CI/CD).
- MoodPlaylist — AI playlist generator based on mood (Python, Claude API, external REST APIs).
- Attack-gseg — AI cybersecurity: mapping logs to MITRE ATT&CK through semantic search (Python).
- HR-Attrition-Predictor-AI — Predictive ML application for HR: predicts and explains employee attrition.
- FraudShield-XAI — End-to-end fraud detection using Machine Learning on financial transactions.
- AI-BusinessPulse — AI reputation platform: customer reviews, emotions, competitive benchmarking and predictions.
- BioMed_AI_Lab — Applied research laboratory analysing biomedical data with AI (Python, Machine Learning, Streamlit).
- Gene-Agent — Autonomous AI agent in bioinformatics: the LLM reasons and executes its own Biopython tools (smolagents, LLM).
- Material-Alchemist — Exploration of the Materials Project database (MIT/Berkeley): 3D rendering of crystal structures and generative materials design.
- First-Principles-Generator — AI first-principles reasoning tool: breaks down a complex problem and generates automatic PDF reports.
- ArcheoRAG — RAG application for exploring and analysing archaeological and heritage content (LLM, Information Retrieval).

WERKERVERING

2009 – Present

AI & Automation Consultant — n8n & AI Agents — WordPress

TeamOne Staffing Specialists, Huy — Remote work · Invoicing through temporary employment (TeamOne Belgium)

- Design and deployment of n8n automation workflows for Walloon SMEs, reducing manual tasks by 60% on average.
- Development of conversational AI agents integrating Claude API for customer-support and lead-qualification automation.
- Creation and maintenance of WordPress websites for associations and companies (Les Chercheurs de la Wallonie, ACTE III S.A., Fondation Galgos Rescue...).
- Development of customised Python scripts for extracting, transforming and analysing business data (ETL).
- Integration of third-party APIs (CelesTrak, geospatial services, REST APIs) into production Python applications.
- Deployment of Python applications on cloud infrastructure (Docker, Hugging Face, Infomaniak Jelastic) with CI/CD pipelines.

2014

IT Consultant

Equip & Adecco

- IT consulting assignments for Brand Power and Aeroservices – Aircraft Servicing: technical support and IT project management.

1989 – 2009

Earlier career

- IT Technician & Logistics Assistant at Spacebel Instrumentation SA (1990–1997), ISO 9002 QA Assistant at Dortu SA (1998), Savings & Insurance Bank Employee at Argenta (1998–2000), then Independent Consultant (2004–2009).

OPLEIDING EN VORMING

- CS50P – Introduction to Programming with Python — Harvard University (2026, official certification)
- Building AI — University of Helsinki (2026, certification)
- Elements of AI — University of Helsinki / UCLouvain (2026, certification)
- AI Automation & Prompt Engineering — SLN Academy (2024)
- Bachelor-level studies in Business IT — IPEPS Seraing, Haute École (2013 – C3). All theoretical and practical course units completed.
- Database Programmer & Educational Applications — STE Formation, University of Liège (1989–1990)

CERTIFICATEN

De hierboven vermelde certificaten zijn volledig behouden uit het Franse cv.

TECHNISCHE COMPETENTIES

- Languages: Python, JavaScript, SQL, YAML, CSS, HTML
- Python Frameworks: FastAPI, Gradio, Pandas, NumPy, Requests
- Automation & AI: n8n (expert), Make, AI Agents, Claude API, Prompt Engineering, LLMs, Generative AI
- DevOps & Cloud: Docker, GitHub Actions, CI/CD, Hugging Face
- Databases: PostgreSQL
- Web Development: WordPress, Elementor Pro, REST APIs
- Methods: Vibe Coding, Agile, Project Management

KWALITEITEN

- Adaptability — 38 years of experience in varied sectors, with a demonstrated ability to quickly master new technologies.
- Organisation — End-to-end management of client projects, in direct contact with SME decision-makers.
- Reliability — High quality standards (ISO 9002), with comprehensive project documentation on GitHub.
- Innovation — Innovative solutions combining AI, automation and Python development.

TALEN

French — Native language

English — Professional level (S+)

INFORMATIE

Rijbewijs: B

BESCHIKBAARHEID

Remote work & SME assignments (Wallonia)

AANBEVELINGEN

More than 10 detailed professional recommendations available on the LinkedIn profile.