



Tuur Van holen

Freelance **full-stack developer & data engineer** · software, AI & automation through Stromac

📍 **Moerbeke (9180), Belgium**

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Pharmacists use my code every day to portion chronic medication; before that I turned sensor data from workplace wearables into numbers on Azure. Three years, and each time the whole thing: schema, backend, queues, frontend, deploy. I add AI where it solves a problem, not because it is expected. Hybrid in the Ghent–Antwerp–Brussels area, remote elsewhere.

● **Open to freelance work · can start within 1–2 weeks**

EXPERIENCE

2023 — present

Full-stack developer **Deritron**

Jan 2025 — present

Ongoing freelance engagement as full-stack capacity for client projects: greenfield next to extensions on what already runs. Hybrid.

TypeScript

React

Node

SQL

Data engineer **SpineWise**

Jan 2025 — Jun 2025

Belgian scale-up (imec.istart, VLAIO) building workplace wearables that measure posture and movement to prevent back and shoulder complaints.

- Designed and maintained data pipelines for sensor data
- Backend in Python on Azure Functions, turning raw wearable data into ergonomics figures a prevention adviser can act on
- Frontend work on the existing application

Python

Azure Functions

Azure Pipelines

Data engineering

Full-stack developer **Polly**

Sep 2023 — Dec 2024

Belgian pharma service that pre-ports chronic medication per intake moment, offered through pharmacies. Built the complete software package with one other developer.

- Pharmacists manage the medication schedules there, and the application drives the machine that physically produces the rolls through API calls
- Task queues (BullMQ) for the asynchronous production jobs
- The two of us owned a production-critical healthcare system, from database schema to the machine on the floor
- More than a year in production, used daily by pharmacists

NestJS

React

BullMQ

SQL

REST to machines

WHAT I DO

Custom software

Web apps from schema to deploy:

React/Next up front, NestJS or FastAPI behind it, Postgres underneath, queues where things have to run async.

AI integration

LLM features inside an existing product: RAG on your own knowledge base, agents that take several steps, and the cost calculation alongside.

Process automation

Connections between the tools you already use (mailbox, Excel, CRM, accounting), with n8n or custom scripts where low-code stops.

STACK

DAILY, IN PRODUCTION

TypeScript

JavaScript

React

NestJS

Node.js

Python

SQL

Git

Data engineer (internship) **SpineWise** Feb 2023 — Apr 2023

- Set up and ran a data pipeline for processing wearable data
- Contributed to ML models that recognise patterns in the datasets
- Designed filter functions that reduce noise and raise data quality

Python scikit-learn TensorFlow

EDUCATION & CERTIFICATES

Associate degree in Programming **Hogeschool Gent**
Sep 2021 — Sep 2023

Two-year practice-based software development programme (EQF 5), with work-based learning and an internship.

Machine Learning · Python for Data Science **Udemy**

Supervised and unsupervised learning, decision trees and neural networks in scikit-learn and TensorFlow; data analysis and visualisation with Pandas, NumPy and Matplotlib.

REGULARLY IN PROJECTS

Next.js tRPC C# / .NET
BullMQ Azure Functions
Azure Pipelines Docker
Postgres scikit-learn
TensorFlow

WORKABLE, GROWING

Claude & OpenAI API RAG
Agent-SDK's n8n AWS
GCP GitHub Actions

CLIENTS

Polly pharma · medication distribution
SpineWise wearables · ergonomics
Deritron software

PRACTICAL

Way of working	Hybrid: on-site in the Ghent–Antwerp–Brussels area, remote elsewhere
Languages	Dutch (native), English (fluent)
Invoicing	Through Stromac — per day or per project
Driving licence	B