

Danil Zhuravlov

Data Engineer · Geospatial & Machine Learning

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Profile Data engineer working on geospatial production for aerial survey. Most of my job is automation and machine learning applied to work that used to be done by hand. One of two programmers in a five-person data team. I do the quality control on deliverables before they reach clients.

Experience **Data Engineer, Vansteelandt BV** March 2025 — Present
Deinze, Belgium. Aerial survey and geospatial data production, in a company where most staff are non-technical.

- Client project — Seabed object detection**
- Built a computer vision pipeline that finds boulders on the seabed from multibeam and side-scan sonar. I did the data preparation, the point cloud to image conversion, the model fine-tuning and evaluation, and the QC workflow the survey team uses. Built from scratch and now in production, with operators reviewing model output instead of marking objects by hand.
- Wrote six Python tools that took repeated manual steps out of production: integrity checks on generated imagery, blurring of sensitive areas to meet publication rules, and convention-based file handling.
 - Gave them simple interfaces and made them portable, so non-technical colleagues can run them anywhere. Some save a colleague around two hours a week; others replaced steps that needed constant attention and now run unattended.
 - Check machine learning output before it reaches clients, correcting detections and analysing where false positives and negatives cluster. On one project that covered several thousand trees.
 - Run a client's asbestos monitoring pipeline on aerial imagery, and coordinate around two LOD2 batches a month with an external production partner.

Skills	Programming	Python, pandas, NumPy, SQL, Git, AI coding assistants
	Geospatial	QGIS, GDAL, PDAL, LAS/LAZ, GeoTIFF, coordinate systems, LOD2
	Machine learning	Data preparation, fine-tuning, evaluation, false positive analysis
	Web	Webflow, HTML, CSS

Training **AI & Data Science Bootcamp, BeCode** 2024
Dutch A1–B1 certification, CVO Groeipunt 2022 – 2023

Languages Ukrainian native · English professional · Dutch B1