Engineer Data

Led 30+ GIS projects from build to support

Led the development, deployment, and support of over 30 GIS projects, demonstrating expertise in PostgreSQL, Bash, Python, JavaScript, GDAL, ArcGIS, PostGIS, and Mapbox technologies.

2015 – 2022

30

GIS projects taken from first line to support

Situation. The company's whole output was made-to-measure GIS — custom mapping and spatial systems built to a client's specific problem, then kept running once they were live. Building the thing is only half of it; a geospatial project that ships and then falls over in production hasn't really been delivered.

Task. These projects ran end to end through this role — the development, the deployment, and the support once they were live — with the technical direction across a fairly wide stack.

Action. Delivery ran on more than thirty GIS projects, hands-on across the stack the whole way. PostgreSQL with PostGIS underneath for the spatial data, GDAL/OGR for moving it between formats — shapefiles, GeoJSON, GeoTIFF, KML, vector tiles — and QGIS and JOSM for the data work itself. On the front of it, web maps built on Mapbox GL and Leaflet, sometimes against the ArcGIS or HERE APIs, with the app layer in JavaScript, Python, PHP and SQL. The work ranged from 2D and 3D digital mapping through LiDAR processing, georectification and vectorisation to indoor mapping and navigation. And the responsibility ran past the point of shipping — the deployment and the ongoing support in production were part of it too, so problems weren't handed off; the decisions had to be lived with.

Result. Thirty-plus projects built, deployed and supported across that whole range. Being on the hook for the full lifecycle rather than just the build is what kept the quality honest — you design differently when you know you're the

one getting the call if it breaks.

Bring this experience to your project

Use “Led 30+ GIS projects from build to support” as a starting point for a similar challenge in your organisation. The services behind this work are available for your project. Numbers arriving where they are needed, on a schedule, without anyone copying a spreadsheet at the end of the month.

Explore our services Get in touch →

Look behind the result

Read the situation, decisions and result in this example. We can discuss which parts transfer to your constraints and which need another approach. Led 30+ GIS projects from build to support — 30 GIS projects taken from first line to support

Explore our services Get in touch →

Need deep GIS expertise on your project?

Talk through your project with the engineer responsible for delivery. We agree the scope, price basis and handover in writing before work begins.

Role context: GIS Software Development Team Lead. It draws on Backend Engineering, Full-Stack Development, Web Development, Databases, PostgreSQL, SQL, Data Engineering, Reliability & Backups, Python, GIS / Geospatial, Team Leadership and Technical Leadership. And while you are here, we are rather good at Backend & API Development, Full-Stack Product Development, GIS & Geospatial Solutions, Data Pipeline Development (ETL/ELT) and Technical Leadership & Consulting.

Get in touch Explore our services

One piece of **a longer record** — and it is all on this site.

Every entry is written the same way: the situation, the task, what we did and what changed.

See the whole record

Define the improvement you need

Bring a representative dataset, the questions it must answer and the current bottleneck. We can agree how to measure quality, throughput and recovery.

See what it costs Get in touch →

Need deep GIS expertise on your project?

Ask about the decisions behind “Led 30+ GIS projects from build to support”. You will speak with the people who can explain the work and assess your own project.

Explore our services

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Take this page with you

Contact card

Carefully Crafted With Love by D.

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