Engineer

GIS / Geospatial

16 achievements

Connect the parts of your system

The work collected under “GIS / Geospatial” shows one part of a working system. We can help connect that part to the rest of your operation. Anything that happens in a place — vessels, vehicles, plots, sensors — put on a map you can search, measure and share.

Explore our services Get in touch →

Find a comparable challenge

Follow an example that resembles your situation. Its review describes the decisions behind the result, beyond the technology label. Made a geographical data pipeline 50x faster — 50x faster geographical data pipelines

Made a geographical data pipeline 50x faster Get in touch →

Made a geographical data pipeline 50x faster

Recorded a 50x geographical data-pipeline improvement in the founder’s Utiligize work through SQL and data-model changes across PostgreSQL, MS SQL and Google Cloud BigQuery.

Improved GIS map performance 10x on PostgreSQL

Improved geographical map application performance by 10x through strategic database transition from MSSQL to PostgreSQL, including the data cutover, optimizing processing and data security.

Resolved 1,000 issues in geographical data

Resolved 1,000 issues in geographical data and time-series data, using GDAL, ArcGIS, PostGIS, Mapbox, QGIS, SQL (PL/pgSQL, Transact-SQL), Bash, ensuring high-quality big data processing.

Delivered 8 Power BI projects with manuals

Delivered 8 Power BI projects with comprehensive manuals, integrating Microsoft Power BI tools with NodeJS API and Python FastAPI for effective data analytics and visualization.

Released 500 electricity and GIS data reports

Released 500 electricity and GIS data analysis reports, utilizing deep research and troubleshooting to ensure accurate geographic and time series big data insights.

Ran 100 PostgreSQL, MS SQL, BigQuery warehouses

Architected, created, and managed 100 PostgreSQL, MS SQL, and Google BigQuery data warehouse databases with primarily GIS and time-series data, optimizing performance and scalability.

Accelerated PostgreSQL performance by 10x

Accelerated PostgreSQL performance by 10x via strategic indexing, partitioning, and query optimization, enhancing database efficiency for user, tenant, geospatial, and time-series electrical data.

Automated GIS SaaS deployment with GitHub Actions

Automated GIS SaaS application deployment, data processing, and reporting system using GitHub Actions CI/CD, Python, Bash, and SQL.

Automated delivery of 20 GIS data pipelines

Automated delivery of 20 GIS data pipelines and app data ETL processes, streamlining infrastructure automation and reporting.

Led a GIS map application to 10x revenue growth

Led the software development of a GIS map application, driving revenue growth by 10x and positioning the product as a primary data asset.

Directed full-stack GIS map development

Directed full-stack GIS map development, overseeing PostgreSQL, Mapbox, ReactJS, and NodeJS to deliver an integrated solution.

Optimized forecasting and investment strategies

Optimized forecasting and investment strategies for 11 electricity grid operators, driving operational efficiency through data-driven GIS solutions.

Managed 30 successful GIS projects to delivery

Managed the execution of 30 successful GIS projects, demonstrating leadership in delivering innovative solutions across the field.

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.

Contributed to user interface design processes

Contributed to user interface design processes, ensuring intuitive, visually appealing, and user-friendly project interfaces.

A mapping product, carried end to end

Architected, developed and supported infrastructure, data processing and a map application over 2 years, covering both software delivery and operational maintenance.

Focus the engineering effort

Describe the workflow, the existing interfaces and the users who need the change. We can define a testable delivery and a handover that lets your team maintain it.

See what it costs Get in touch →

Put the subject in your context

Tell us how “GIS / Geospatial” appears in your own system. We can help choose the relevant service and define the work around it.

Explore our services

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Contact card

Carefully Crafted With Love by D.

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