Engineer Advisory

Databases

9 achievements

Connect the parts of your system

The work collected under “Databases” shows one part of a working system. We can help connect that part to the rest of your operation. The part users never see: where the data lives, what the rules are, and how other systems are allowed to talk to it.

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. Delivered 8 Power BI projects with manuals — 8 Power BI projects, each with its manual

Delivered 8 Power BI projects with manuals Get in touch →

Directed full-stack GIS map development

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

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.

Set the platform's founding technical decisions

Set the platform's founding decisions in the weeks after the repository opened in November 2025 — the layering, database-first data access and the zero-warnings bar — and they still hold nine months on.

Built Stripe and in-app purchase entitlements

Built the payments and entitlements layer — Stripe alongside Apple and Google in-app purchase — gating the directory, search and export through an 11-table access model checked on the server.

Built a loyalty wallet, leagues and badges

Built the loyalty and reputation system — 67 functions over a 31-table ledger, with leagues, badges and a redemption shop — taking a row lock on the balance to close the double-spend window.

Built the social layer: posts, feed and groups

Built the platform's social layer — posts, feed, groups, mentions, a follower graph and an occasions digest — on the same function-first data layer as the rest of the product.

Built the hiring and seafarer career workspaces

Built hiring and seafarer career workspaces; the recorded implementation snapshot contains 151 stored functions across 48 tables for vacancies, applications, certificates, rank progression and sea time.

Held the generator to 981 tests and 92% coverage

Held the generator to 981 test cases at a 92% branch-coverage floor with warnings treated as failures, and asserted idempotence by running the whole build pipeline twice from an empty file and requiring the second pass to change nothing.

Wrote tests for the checkers themselves

Wrote tests for the checkers themselves after establishing that a checker fed only clean input will one day report clean because it read nothing — planting a misspelling to confirm the spell-check finds it, and taking an id range from the database rather than from a number in the test.

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 “Databases” 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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