**Engineer** Advisory

# Performance Tuning

7 achievements

## Connect the parts of your system

The work collected under “Performance Tuning” shows one part of a working system. We can help connect that part to the rest of your operation. Somebody on your side of the table when a supplier, a budget or an architecture decision needs a second informed opinion.

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## Find a comparable challenge

Follow an example that resembles your situation. Its review describes the decisions behind the result, beyond the technology label. One infrastructure plan for 14 departments — 14 research departments on one infrastructure plan

**One infrastructure plan for 14 departments** 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.

### Overhauled internal processes, saving 8,000 hours

Overhauled internal processes, saving 8,000 hours by improving software architecture, systems, and scheduling efficiency.

### Saved 150 hours a month across 30 projects

Enhanced project efficiency, saving 150 hours per month across 30 projects by optimizing workflows and resource management.

### 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.

### A safety net that no longer costs half an hour

Cut the site's browser-driven quality gate from 1,636 seconds to 615 by scheduling its checks longest-first through a worker pool bounded to four lanes, after measuring that alphabetical order cost 320 seconds against 224.

### Adopted Swift 6 strict concurrency over C

Adopted Swift 6 complete strict concurrency with no actors, bridging a blocking C event loop to the main actor through one producer, one consumer and one ordering — after establishing that a task per event loses the ordering the interface depends on.

### Took the test suite to 8.9 seconds

Took the test suite from six tests over a sixty-second limit to 135 passing in 8.9 seconds by profiling the main thread and removing the two calls it sat inside for 3,989 samples out of 4,017.

### Focus the engineering effort

Bring the decision, the people affected and the options already considered. We can make the tradeoffs explicit and leave a documented recommendation.

**See what it costs** Get in touch →

## Put the subject in your context

Tell us how “Performance Tuning” 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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