
ENGINEERING · AUDIT

Performance Audit

A repeatable process for finding and fixing performance problems.

NWARRAH

Systems, software & applied AI — engineered to last.

Run this audit quarterly or before a major launch. Measure first, optimize second — never guess.

Measure

- Core Web Vitals captured (LCP, INP, CLS) from real users.
- Lighthouse run on key pages (mobile + desktop).
- Server response time (TTFB) measured under load.
- Bundle size analyzed; largest dependencies identified.

Frontend

- Images are responsive, compressed, and lazy-loaded.
- Critical CSS inlined; non-critical deferred.
- JavaScript code-split by route.
- Fonts preloaded with font-display: swap.
- Third-party scripts audited and deferred.

Backend & Data

- Slow database queries identified and indexed.
- N+1 query patterns eliminated.
- Caching layer in place (CDN, edge, or app-level).
- Payloads trimmed to fields actually used.

Verify

- Before/after metrics recorded for each change.
- Performance budget set and enforced in CI.
- Regression alerts configured.