Engineer Software

Security

15 achievements

Connect the parts of your system

The work collected under “Security” 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. Designed and ran 6 ETL/ELT pipelines — 6 ETL pipelines across three database engines

Designed and ran 6 ETL/ELT pipelines Get in touch →

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.

Built organization context switching for users

Designed an organization context-switching system with client localStorage and server-side cookie mirroring, letting users act as managed organizations while enforcing least-privilege authorization.

Built email with failover and delivery logging

Built email as a platform capability — three providers with failover, delivery webhooks, send and delivery logging, templating and campaigns — behind a startup check that will not boot without one.

Designed a function-first PostgreSQL data layer

Designed a PostgreSQL function-first data layer — 1,275 stored functions across 34 schemas — so every read and write goes through a function the database can grant, rather than through a table.

Hardened the application with nonce-based CSP

Hardened the application with nonce-based CSP, HSTS, SameSite cookies, least-privilege database roles and server-side entitlement re-checks.

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 the entire core infrastructure from scratch

As one of the first hires, designed and built the entire core infrastructure and supporting processes from scratch for a green-energy SaaS startup, laying the foundation for rapid growth.

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 first-party error monitoring and tracing

Built first-party error monitoring and OpenTelemetry tracing rather than buying them — payload sanitising, spike and regression detection, symbolication and a synthetic heartbeat — behind 11 operator views.

Built fail-closed rate limiting and anti-abuse

Built fail-closed abuse controls — 22 Redis-backed rate limiters, Cloudflare Turnstile, request idempotency and an origin lock — so the platform sheds bots and floods instead of trusting its callers.

Built company ownership claims and adjudication

Built company ownership claims end to end — a user claims a company, an administrator adjudicates, and an approval rewrites the authorization graph that decides who is allowed to edit what.

Wrote a parser verifying every FFI call

Wrote a parser that reads the real 7,308-line C header and verifies every call site, every enum constant and that every pointer-owning class is final, after a hand-written placeholder header let calls to three removed functions compile, link and crash.

Reached the unused half of the core

Reached the half of the messaging core the application had never used — backup transfer, disappearing messages, message editing and resending, verified invitations, proxies and encryption policy — driving every test against the real library with no mocks.

Rewrote error messages to stop blaming users

Rewrote the application's error messages against a written tone standard after a refused sign-in blamed the user for mistyping when the provider actually required an app-specific password, and covered it with a test that names the provider.

Published a readable Tor onion mirror

Published the site as a Tor onion mirror on a readable address beginning engineer, with the key generated off the host so it never reached this repository or a laptop, and left it the one front door of four that is never counted.

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 “Security” 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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Carefully Crafted With Love by D.

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