

Noe Trevino

Seattle, WA, USA

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Full-stack software engineer with an MSc in Computer Science and production experience across TypeScript (Angular and React), Go, Java/Spring, C#/.NET, and Python. At RESPEC I own features from the database migration through the UI for government clients, and I have cut query latency 14x, ended a chronic deadlock problem, and automated a four-environment release. Outside work I build and run my own products, including a Stripe-backed e-commerce shop with a print-queue worker and a Neovim plugin with 300+ GitHub stars. Based in Seattle.

Core Competencies

- **Languages & frameworks:** TypeScript, Angular (signals, RxJS), React, Go (net/http, sqlc), Java (Spring Boot, Hibernate), C#/.NET (EF Core), Python (FastAPI), Lua, SQL.
- **Data:** PostgreSQL, SQL Server, SQLite; schema design, migrations, EXPLAIN-plan tuning and indexing, transaction isolation, row locking for concurrent workers.
- **Backend & integrations:** REST API design with OpenAPI specs, Stripe Checkout and webhooks, JWT auth with refresh-token rotation, role-based access control, scheduled jobs and templated email.
- **Delivery & operations:** GitHub Actions, Azure Pipelines, Docker, self-hosted systemd deploys behind Caddy, OpenTelemetry and Grafana, Playwright and HTTP smoke tests in CI.
- **GIS & geometry:** ArcGIS Maps SDK for JavaScript, ArcGIS Server, JTS, Turf.js, linear referencing, OpenSCAD parametric modeling.

Professional Experience

- **RESPEC** **Remote / Seattle, WA**
2025–Present
Associate Software Consultant
 - **ICRIS** (Idaho State Historic Preservation Office; Java/Spring, PostgreSQL, Angular/TypeScript, ArcGIS): Led a 3-engineer GIS sub-team and designed the platform's dynamic segmentation feature end to end, including direction-aware route slicing and traversal across adjoining route features. Built custom ArcGIS map layers that enforce client business rules and opened a new revenue stream.
 - On ICRIS, cut a hot-path query from 11ms to 0.8ms (~14x) through EXPLAIN-plan analysis and targeted indexes. Rolled out a new subscription tier across the migration, backend authorization, and every gated screen, and renamed permission checks after the capability they guard.
 - Found and fixed an inverted ring-orientation assumption in the Esri-to-JTS geometry mapper that silently mis-assembled polygons with holes; added validation that rejects degenerate shapes on both frontend and backend.
 - On the Spring/Hibernate backend, turned off open-session-in-view and fixed the endpoints that depended on it, fixed duplicate rows across pages with stable secondary sort keys, and added a nightly scheduled job that emails staff a report of projects in an invalid state. Built an anonymous public project map on a restricted backend query.
 - **Careview** (NM Retirement Health Care Authority; C#/.NET, EF Core, SQL Server): Sole engineer. Reduced search times 10x with selective hydration on paginated queries, and ended chronic transactional deadlocks by enabling Read Committed Snapshot Isolation, cutting weekly incidents 50%. Built the automated test suite and the PR-gate CI.
 - **OBMS** (NM Education Department; .NET): Automated a manual 11-step, four-environment deployment, cutting release time from 2 hours to 15 minutes.

- **RESPEC** **Dallas, TX**
2024–2025
 - *Software Consultant Intern*
 - On ICRIS, removed Angular memory leaks by reworking frontend state management, owned the SQL migration pipeline, and wrote a data-sanitizing migration that repaired corrupt production records.
 - Led a team of 4 interns to build and present an internal application; designed its relational database and mentored the other interns on coding and tooling.
- **DFW Metroplex School Districts** **Texas, US**
2020–2024
 - *Freelance Music Teacher*
 - Taught grades 6-12; designed a music-literacy curriculum and coached competition ensembles.

Independent Projects

- **TNT Aero**: Direct-to-buyer shop for made-to-order bicycle accessories, built as a Go (`net/http`, `sqlc`, `goose`) API over PostgreSQL and a prerendered Angular 22 frontend with signals. Stripe webhooks are processed idempotently in one transaction, and a conditional update on the order makes the paid transition a one-time claim. A background worker renders OpenSCAD part models to STL files for the print queue and claims jobs with `FOR UPDATE SKIP LOCKED`, so two workers never take the same job. Includes rotating refresh tokens, rate-limited auth routes, and an admin area for orders, shipping, and the print queue. CI runs Playwright tests (including a full purchase against a Stripe sandbox) and API smoke tests with `kulala`, then deploys to self-hosted machines behind Caddy. Product pages use a drag-to-rotate viewer built from batch-rendered photo frames, with JSON-LD metadata for search.
- **haunt.nvim** ([GitHub](#)): Open-source Neovim plugin (Lua) for branch-scoped code annotations; 300+ stars and merged work from 6 outside contributors. Debounced, rebase-safe git-HEAD watcher and versioned JSON storage with automatic migration; 480 tests across 22 spec files.
- **tremolonotes.com**: Music sight-reading platform with three services (Angular, Go `net/http` with `sqlc`, and a Python/FastAPI exercise generator on `music21`). JWT auth with refresh rotation, Google OAuth, and account lockout; path-filtered CI with HTTP smoke tests against a live PostgreSQL.
- **havnermusic.com**: Sheet-music store for a working musician (Spring Boot, PostgreSQL, React/TypeScript). A unique database constraint settles the race between the Stripe webhook and the success page, so each order is fulfilled and emailed once. Expiring download tokens; OpenTelemetry traces and metrics in Grafana.
- **no-go.nvim** ([GitHub](#)): Neovim plugin that collapses Go error-handling blocks. Hand-written Tree-sitter queries find the blocks, and `extmark concealment` hides them until the cursor enters.

Education

- **University of North Texas** 2025
 - *Master of Science in Computer Science*
- **University of North Texas** 2022
 - *Bachelor of Music Education*