

Nicholas Maassen

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SUMMARY

Full-stack software engineer contracted with Avodah Software since Feb 2024. Worked on 9 client products across payments, scheduling, AI-assisted healthcare, and multi-tenant admin tools — led 4 end-to-end and contributed substantial slices to 5 more. Strong on translating ambiguous client asks into scoped launches, production hardening, and prompt engineering for agentic AI.

SKILLS

Languages: TypeScript, JavaScript, SQL, HTML, CSS

Frontend: React, React Native, Vite, TanStack Query

Backend / Data: Node.js, Bun, Fastify, Webhooks, PostgreSQL, Supabase, Drizzle ORM, Firebase, SQLite, Cloudflare D1

Cloud / Integrations: Cloudflare Workers, Fly.io, AWS Lambda, Stripe Connect, Microsoft Graph, Clerk, Sentry, Postmark, Deepgram, OpenRouter, Promptfoo

AI workflow: output-driven prompts, multi-agent planning with cross-LLM review; use third-party Claude Code skills (Core Web Vitals, Impeccable) alongside skills I built (greptile-swarm, dealer-antipattern-scan)

EXPERIENCE

Avodah Software

Feb 2024 – Present

Full Stack Software Engineer

Farmington Hills, MI / Remote

B2B Used-Car Wholesale Marketplace

- Built a closed-loop transaction service: Stripe Connect ACH escrow tied to title-verification status, FedEx label automation, RLS-backed purchase orders with atomic state transitions, and tokenized role-aware invitation flows.
- Designed an intent-based search that narrows results to what non-technical used-car dealers are actually looking for, rather than dumping a generic catalog listing.

AI-Assisted Healthcare Workflow

- Architected the fully automated booking-to-report pipeline: Microsoft Bookings, Teams (with auto-recording webhooks), Deepgram streaming transcription, multi-prompt LLM generation with parallel-agent review, and a role-based portal across 4 user types. Production Lighthouse 95/100 desktop.
- Pitched the parallel-agent review phase to the client; used Promptfoo to identify the model with strongest prompt adherence and structured output. Pushed back on inflated scale projections to ship magic-link auth right-sized for actual usage; silent A/B tracking on parallel suggestions surfaced which prompts users preferred.

Scheduling Sync Integration

- Deployed greenfield Cloudflare Workers, D1, and React plugin syncing two evolving vendor APIs. Scaffold to production in 2 days; full launch with users, demo video, and tests in under 2 weeks. Production Lighthouse 97/100 desktop.
- Captured edge-case sync errors from both systems and translated them into non-technical, actionable language for center staff; hardened webhook handling for missed-event scenarios with responsive recovery UX. Coordinated requirements between client and vendor while the vendor's API was still being built.

Earlier Avodah Products (2024–2025)

- Engineered real-time messaging and the intuitive UX for domain-specific user input on a job-matching social platform (Firebase WebSockets, Postgres persistence, optimistic updates, delivery confirmation; Apple HCI standards for capturing skills and connections without form fatigue).
- Shipped an 8-hour document-sync project with explicit error verification for outbound emails and generated PDFs; wrote a data-explorer for side-by-side system-prompt comparison and message flagging in early prompt-tuning work.

PROJECTS

Cube Merge

cube-merge.nmaass.dev

TypeScript, React, Firestore, Cloudflare Pages

Lighthouse 100/100 · LCP 0.8s · CLS 0 · 307 KB

- Real-time review tool for cube-building hobbyists. Immutable change log lets any anonymous user branch and re-share from any prior point, so identity-based trust is unnecessary. Six change types (swap / add / remove / keep / reject / decline), threaded @-mention comments, virtualized rendering for 500+ cards, CubeCobra-compatible export.

Trait Ranker

trait-ranker.nmaass.dev

TypeScript, React, Firebase

Lighthouse 99/100 · LCP 0.8s · CLS 0.003 · 539 KB

- Drag-and-drop pairwise ranking on desktop and mobile, used by ~50 people. Heap-sort surfaces a top-7, then merge-sort for the final order; minimizes user comparisons. Includes a social guessing loop where friends try to predict your top traits before you reveal them. Anonymous Firebase sessions with exportable results.

EDUCATION

Wayne State University

B.S. Computer Science

Detroit, MI

May 2023