

# DANIEL PLOTNIK

Design Engineer

AI Specialist

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Location: Winnipeg, MB

## SUMMARY

Design Engineer specializing in AI-driven development with a focus on luxury aesthetics through technical precision. Expert in crafting premium user interfaces that combine elegant design with cutting-edge AI/LLM workflows. Proven ability to deliver high-performance applications with 60fps interactions, optimistic UI patterns, and keyboard-first workflows while maintaining luxury brand standards.

## TECHNICAL STACK

**Frontend:** React, Next.js,

TypeScript, Tailwind CSS, Framer Motion

**State:** Zustand, React Hooks

**AI/LLM:** OpenAI API, AI Workflows, LLM Integration

**Tools:** Vite, Git, Vercel, Figma

**Performance:** Lighthouse Optimization, Core Web Vitals, TBT Optimization

**Architecture:** Hybrid Systems, Custom Widget Injection, CMS Integration

## EXPERIENCE

### Digital8 OS

High-performance task management platform with Linear-inspired UX. Built with Next.js, TypeScript, and Zustand for global state management achieving 60fps UI performance.

- Resolved **React Error #185** (Maximum Update Depth Exceeded) through optimized filter logic and memoized state management, eliminating infinite re-render loops
- Achieved **100/100 Performance** Lighthouse scores across all metrics through strategic optimization of state management and rendering patterns
- Implemented optimistic UI updates and keyboard-first workflow for seamless user experience
- Built command palette with CMDK library for instant navigation and action execution

### MyTravelPoint Agency

Hybrid architecture connecting a Duda CMS commercial site with a high-performance Next.js AI tool. Orchestrated platform-native limitation bypass through custom widget injection and hybrid system design.

- Achieved **100/100 SEO** and 96 Best Practices scores despite platform constraints

- Developed **Hybrid Architecture** solution integrating Duda CMS with Next.js, bypassing platform limitations through custom widget injection
- Optimized third-party script execution achieving 0ms Total Blocking Time on mobile
- Maintained Desktop Performance score of 82/100 while ensuring perfect SEO metrics

## TravelPoint Planner

AI-powered travel orchestration engine that generates hyper-personalized itineraries based on complex user inputs.

- Engineered a Generative AI System integrating the OpenAI API to transform structured user data (destination, mood, traveler type) into detailed day-by-day itineraries
- Designed a luxury "Mission Control" interface with conditional form logic to capture granular travel preferences
- Implemented dynamic prompt engineering to ensure consistent, high-quality outputs tailored to the luxury travel market