FAR SKY

BESPOKE WEB APPLICATIONS AND WEBSITES

project portfolio 2025

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PROJECT EXAMPLES

FFMF SOCIAL RECIPES: FOOD FOR MY FRIENDS

Systems Design, Data Analysis, Social Network

Role: Project Lead, Technical Designer/Builder, UX

Team Size: 3

No. Interfaces: 2 (Client / Admin)

Total Build Time: 2.5 Months



Project Description:

As Project Lead, Technical Designer/Builder, and UX designer, I led a threeperson team to develop FFMF Social Recipes, a social network application for personalized culinary event planning. Over 2.5 months, we delivered two interfaces (client and admin) enabling users to create detailed food preference/allergen profiles, manage user groups, and organize events with integrated notifications and calendars. I designed a robust recipe database with administration tools and developed custom portals interfacing with the USDA Food Safety Database API for ingredient analysis and the University of Nebraska Allergen Database API for allergen detection.



A custom algorithm generated tailored recipe suggestions based on event participants' allergen profiles, ensuring safe and personalized dining experiences. The system's API interactions were optimized for speed and bandwidth efficiency, delivering seamless functionality.

Challenges and Solutions:

A key challenge was simplifying complex allergen and preference data into an intuitive interface for diverse users. I addressed this by designing a streamlined

UX with clear navigation and personalized features, ensuring users could easily create events and access safe recipe suggestions.

The custom algorithm for tailored recommendations highlights my ability to implement smart, user-focused solutions, which can be applied to GP's Venue Search System for features like AI-driven venue matching.

OUT OF LINE PREORDER SYSTEM

Systems Design, Sales & Logistics Interface **Role:** Project Lead, Technical Designer/Builder, UI/UX **Team Size:** 1 **No. Interfaces:** 4 (Client / Client Management / Admin / Kitchen) **Total Build Time:** 4 Months



Project Description:

As sole Project Lead, Technical Designer/Builder, and UI/UX designer, I developed a bespoke preorder system for multi-venue food, drink, and merchandise operations over four months. This efficient platform, with four interfaces (client, client management, admin, kitchen), streamlined preordering, cart management, payment, order tracking, and notifications. I focused on intuitive UX design, creating a seamless experience with clear navigation across all interfaces, ensuring clients and staff could manage orders effortlessly.

Flexible venue management supported unlimited events, menus, pickup locations, and kitchen operations, enhanced by custom algorithms for schedules, substitution groups, and bundled items to drive sales incentives. The system integrated with the FoxyCart API for automated transactions, cancellations, and returns, while offering detailed reporting and Excel/Numbers exports.



Real-time SMS notifications, powered by tailored algorithms, kept customers informed with live order statuses and pickup instructions. This solution optimized operations, enhanced customer experience, and supported scalable, high-volume event management with a user-centric approach.

Challenges and Solutions:

The primary challenge was designing an intuitive UI/UX for a complex system with extensive options-ranging from menus and schedules to bundled itemswithout overwhelming users. I tackled this by focusing on streamlined navigation and a modular interface, aiming to make event management accessible and efficient for all users, from clients to venue managers and kitchen staff.

Working on OOL taught me the importance of balancing functionality with user familiarity, a lesson I'll bring to this project to ensure intuitive, flexible, and sustainable solutions.

BAKBONE TABLET RINGS

Product Launch, Sales & Logistics Interface

Role: Project Lead, Technical Designer/Builder, Branding/Logo Design

Team Size: 2

No. Interfaces: 2 (Client / Admin)

Total Build Time: 3 Months



Project Description:

As Project Lead and Technical Designer/Builder, I spearheaded the development of a web application for a versatile tablet ring mount, designed for medical (ER/EMS), hospitality, and military applications. This removable, sanitizable mount offered unmatched flexibility and durability, meeting stringent industry standards.

Over three months, my two-person team delivered a product name, logo, product packaging design, and product sales website with a comprehensive white paper archive tailored for governmental, medical, industrial, and hospitality RFP presentations. I engineered a custom sales interface, securely integrating Chase banking, FoxyCart, and IML logistics APIs to streamline transactions and shipping.

Additionally, I developed a cross-platform inventory management and logistics interface, providing on-demand metrics and robust security. The solution empowered clients with seamless purchasing and operational efficiency, ensuring reliability in high-stakes environments.



Challenges and Solutions:

A key challenge was creating a client-facing platform that balanced robust functionality with a seamless user experience across industries with varying needs but the primary challenge was managing server-to-server interactions between the payment portal, cart system, and IML Logistics, which were not designed to communicate.

Each API interaction demanded multiple security layers, handshakes, and format conversions along with extensive restructuring of database tables and columns and varying standards for worldwide sales and delivery. I overcame this by meticulously designing a robust integration framework, ensuring seamless data flow and secure transactions across systems.

REAP ALERT

Systems Design, Data Analysis, and Transmissions

Role: Project Lead, Technical Designer/Builder, UI/UX

Team Size: 4

No. Interfaces: 4 (Client / Admin / Mobile / DB Query API)

Total Build Time: 5 Months



Project Description:

As Technical Designer/Builder and UI/UX designer, I led a three-person team over five months to develop REAP Alert, a real-time emergency alert platform for environmental disasters, serving contractors, first-responders, farmers, municipalities, and school districts nation-wide.

The system featured three interfaces (client, admin, emergency broadcast) with custom admin tools for managing alerts, user data, and settings. I aggregated

80+ NOAA APIs to deliver real-time weather data, including tornado, tsunami, and flash flood warnings, alongside custom CMS tools for updates. The platform supported 10-second alert intervals, notifying users across 40 states via email, SMS, and app push notifications. I optimized API calls for speed and bandwidth, ensuring reliable performance under high demand, and delivered detailed analytics and Excel/Numbers exports for admin use.

REAP Alert provided a responsive, user-friendly experience, enabling rapid, informed responses to environmental threats. Approximately one year after completion, the system was integrated into a U.N.-based global program, where it continues to operate.



Challenges and Solutions:

A key challenge was aggregating and processing real-time data from 80+ NOAA APIs to deliver alerts within 10-second intervals, ensuring reliability during high-stakes scenarios. I addressed this by designing an efficient data pipeline with optimized API calls, guaranteeing speed and accuracy under pressure. This expertise in real-time data handling can enhance GP's site load struggles and the Venue Search System, enabling dynamic features like live venue availability or event-specific recommendations.