JOSHUA WETZEL

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Full Stack Software Engineer with 6+ years of experience building, modernizing, and sustaining production applications across **modern and legacy .NET**. Currently maintain and extend **three concurrent statewide production systems** across three .NET eras for the State of Louisiana, working directly with the project manager; previously **solo-modernized a distributor's entire customer-facing platform end-to-end** — legacy VB.NET rewrite, search, a partner API platform with multi-language SDKs, and omnichannel customer messaging. Comfortable from database to UI and from stakeholder requirements to production, with strong **cross-stack root-cause debugging**.

Also independently build and ship products that run in production — including a Stripe Connect payments platform, a native iOS/Android app, and AI-augmented content platforms built on the **Anthropic and OpenAI APIs** — keeping full-lifecycle and hands-on AI skills current. Effective fully remote or on-site.

EXPERIENCE

Tri-Core Technologies

Oct 2021 – Present · Remote

Full Stack Software Engineer

.NET Core · ASP.NET Web Forms · .NET Framework 4.5 · Angular · Knockout.js · SQL Server · MongoDB · AdobeSign

On a development team working with a State of Louisiana project manager, maintain, enhance, and expand **three concurrent statewide production systems** across three distinct .NET eras — a modern .NET Core/Angular/MongoDB SPA, a legacy ASP.NET Web Forms/SQL Server portal, and a .NET Framework 4.5/Knockout.js/SQL Server logistics system. Own **root-cause investigation** across all three: take vague "something went wrong" reports, reproduce and trace the issue through the stack, and ship a fix that addresses the true cause rather than the symptom — debugging that holds across three different stacks and eras.

- **Fastlane** (Louisiana tax-incentive reporting; .NET Core API + Angular + MongoDB) — build paperless application forms with **AdobeSign e-signature** agreements and a per-program access/edit permission model serving all major incentive programs in one platform (Industrial Tax Exemption, Film, Digital Media, Restoration Tax Abatement, Enterprise Zone, Quality Jobs), plus a configurable notification system routed along three axes (**program × email-type × form**) so each program manager receives only the notifications relevant to the programs and forms they own.
- **SmallBiz** (Louisiana Economic Development small-business assistance; ASP.NET Web Forms + SQL Server) — maintain and extend a three-application system (LED admin, service-provider intermediary, and applicant business portals) for the SEBD and Hudson Initiative programs; translated a change in Louisiana law into a live production change, reworking SEBD certification from a one-time 10-year form into a recurring **5-year recertification** cycle with deadline-driven reminders while preserving **backward compatibility** so businesses certified under the legacy 10-year model continued operating uninterrupted.
- **PODIS** (National Guard disaster-logistics inventory & issuance; .NET Framework 4.5 + Knockout.js + SQL Server) — work the emergency supply chain end-to-end: commodity/asset acquisition and issuance to warehouses, warehouse-to-distribution-point shipment management and inventory audit, and point-of-distribution receiving and reporting.

Lipsey's LLC

Dec 2019 – Oct 2021 · On-Site, then Remote

Full Stack Software Engineer

.NET Core · React · Node.js · SQL Server · Lucene · Twilio · Sentry · AWS Lightsail · IIS · Apache

Sole internal software engineer for a distribution/warehouse company — **solo-owned end-to-end** the modernization of the customer-facing platform and its supporting back office, and transitioned the role on-site → fully remote during COVID without disrupting delivery.

- Rewrote the legacy **VB.NET** customer-facing application (front and back end) into a **.NET Core API + React** front end — staged on a dev environment, then cut over to production as the full replacement.
- Stood up **proactive production error monitoring** — live email error alerts plus **Sentry** — to find and fix failures before customers complained, and to catch the issues customers would never bother to report.
- Designed and tuned a **Lucene search engine** for the product catalog, running an in-person user-research loop with sales staff — observing real searches, capturing where results failed, and mining domain vernacular and item aliases from product experts into search synonyms to improve recall.
- Built and shipped a **partner API platform**: public APIs exposing product catalog, pricing, quantity/inventory feed, and order placement; authored the API documentation; and personally built and published official client SDKs in **npm, NuGet, and Python** so partners integrate in their language of choice.
- Built a **Twilio-backed omnichannel messaging app** connecting salespeople and customers over a single shared company SMS number — routing inbound texts to the correct rep by matching the sender against the customer's record and assigned salesperson, unifying SMS with the website live chat, and enforcing STOP/opt-out compliance.
- Built internal back-office tooling across **credit, purchasing/buyers, sales, and security/compliance** functions.
- Administered hybrid infrastructure — **IIS on Windows** and **Apache on Linux**, hosted both self-managed on-prem and on **AWS Lightsail**.

Not Rocket Science Inc.

Jan 2017 – Apr 2018

Web Development Intern

.NET · Angular · SQL

- Web development internship at a .NET shop held during college — built product demos for the sales team.

SKILLS

Languages: C#, TypeScript, JavaScript, SQL, HTML, CSS

Backend: .NET Core, ASP.NET (Core & Web Forms), .NET Framework, Entity Framework, Node.js, Express, Next.js, REST APIs

Frontend: React, Next.js, Angular, React Native

Databases & Search: SQL Server, PostgreSQL, MongoDB, SQLite, Lucene

Cloud & Infra: Cloudflare, Cloudflare R2, Railway, IIS (Windows), AWS Lightsail

Integrations: AdobeSign, Stripe Connect, Twilio, Google Calendar API, Meta Graph API

AI: Anthropic API, OpenAI API, Google GenAI, agent orchestration

Tooling: Claude Code, Git, Playwright, Vitest, Sentry

PROJECTS

CookJunkie

cookjunkie.com

AI-Augmented Recipe & Cookbook Platform

Next.js · TypeScript · MongoDB · Anthropic API · Stripe · Lulu Print API

WordPress → Next.js rebuild of a 15,000-recipe site, with AI-driven data repair and AI-assisted recipe authoring, built around a custom print-on-demand cookbook business.

- Ported **15,000 recipes** off the legacy WordPress site onto Next.js, preserving URL and taxonomy structure so existing SEO rankings carried over.
- Ran **AI audits across all 15k recipes** to repair malformed legacy data, normalize fields, and improve SEO metadata at scale.
- Built **AI authoring assists** into recipe creation — extract structured recipe data from a photo of a recipe, with separate AI passes that estimate nutrition values and suggest recipe enhancements.
- Built **pantry-aware recipe discovery** — users enter the ingredients they have on hand and get matching recipes via an integrated recipe search API.
- Built a **context-aware AI chat** that pulls the user's own context and live site data into responses.
- Core: a **custom cookbook builder** where users assemble recipes into a personalized book for physical print-on-demand ordering.
- Integrated **Stripe** for cookbook checkout — guest/no-account checkout with automatic refund on print failure and order tracking.
- Generate a **print-ready PDF** of the assembled cookbook and submit it to the **Lulu Print API** for physical fulfillment.

Weekend Plant

weekendplant.com

AI Research-Driven Plant Knowledge Platform

Next.js · TypeScript · MongoDB · OpenAI · Google GenAI · Meta Graph API

Converts authoritative-but-hard-to-read horticultural data into clean, human-readable content — using AI research to gap-fill source data and generate long-form tutorials.

- Built an **AI deep-research pipeline** that generates long-form how-to gardening tutorials.
- **AI fills missing and sparse fields** — admin reviews and accepts in-form (human in the loop) — turning incomplete source records into complete, human-readable plant profiles.
- Scraped and normalized plant data from authoritative sources (**USDA, Wikidata**, others), reconciling conflicts into one clean dataset.
- **Auto-posts to social media** on a schedule, with AI-generated post copy to keep content varied.

Vorbiz

vorbiz.net · Google Play · App Store

Offline-First Multi-Device POS (iOS + Android)

React Native · Expo · TypeScript · WatermelonDB · PostgreSQL · EAS Build

Native iOS + Android point-of-sale app for market vendors — offline-first with multi-device sync, shipped to both app stores.

- **Offline-first multi-device sync** — local-first writes with clean reconciliation across two phones at the same booth.
- Built and shipped natively to the **iOS App Store and Google Play** via an EAS Build pipeline.
- **QR-based sale capture** for fast tender (Vision Camera).
- **Bulk inventory import** via CSV upload or Google Sheets URL paste.
- **Immutable sales ledger** — prices and taxes snapshot at sale time; corrections via voids/offsets only.
- **Two-tier tax engine** (resale-cert + 501(c)(3) exemption) with PDF sales-tax and revenue reports.

TutorTab

tutortab.net

Stripe Connect Scheduling & Invoicing Platform

Next.js · TypeScript · MongoDB · Stripe Connect · Google Calendar API · node-cron

A Stripe Connect platform where independent tutors accept their own payments, with two-way Google Calendar sync and an automated reminder cascade.

- **Stripe Connect platform** — per-tutor sub-merchant onboarding, destination charges, and platform fees.
- **Parent autopay** across every tutor, with double-payment prevention and chargeback auto-block.
- **Two-way Google Calendar sync** — creates calendar events and updates the system from calendar-side changes.
- **Scheduled reminder email cascade** driven by cron jobs.
- **Magic-link sign-in**.

EDUCATION

B.S., Computer Science — Southeastern Louisiana University 2015 – 2019