



## Harold Hawkins

Software Engineer

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I'm a seasoned software engineer with over two decades of experience building web applications across industries ranging from corporate travel to precision weather intelligence. In 2000 I transitioned from desktop support into full-stack development at Ultramar Travel Management, where I architected and maintained enterprise-level tools used by Fortune 500 clients. Most recently, at TruWeather Solutions, I focused on frontend development using React, Leaflet, and Tailwind to deliver route planning and real-time mid and low altitude weather alerting and forecast for unmanned aerial systems. I'm most at home solving complex interface and data integration challenges, and I bring a pragmatic, hands-on approach to software design—whether modernizing legacy systems or building something entirely new.

### TruWeather Solutions

#### Software Engineer (Frontend)

*Remote — Jun 2022 to Nov 2024*

- Helped lead the frontend rewrite of TWS's UAV weather risk mitigation tool ("V360") from Angular to React, improving developer velocity and maintainability.
- Integrated Tailwind, Leaflet, and Redux to build dynamic map-based UI for weather routing, wind profiling, and road cam feeds.
- Displayed real-time lightning data using WebSockets; assisted with visualizations of cutting-edge vertical wind profile data (e.g., Meteodrone).
- Built and automated a custom Python-based pipeline to download, reproject, and tile FAA sectional maps for app integration ([Sectional Chart Tiles](#)).
- Collaborated with a multidisciplinary team including AI researchers, sensor engineers, and backend developers using Sails.js and WebAssembly integrations.

### Ultramar Travel Management / Travel & Transport

#### Web Developer / Software Engineer

*New York, NY — Nov 2000 to Mar 2020*

- Led full-stack development of Ultramar's customer self-profiling system, integrating with the Sabre GDS via automation scripting
- Migrated internal systems to MS SQL Server and contributed to the integration of third-party booking portals (GetThere®, Cliqbook/Concur, Rearden).
- Sole developer of a comprehensive backend admin portal (cPanel-like), evolving from popular CMS platforms to a custom REST-based solution using PHP, SQL Server, and [RESTler](#).
- Rebuilt *RecruitSync*, a specialized platform for managing legal industry recruiting events, porting the frontend from ASP.NET to a modern stack and extending backend APIs to support complex scheduling and shared expense tracking.

#### Frameworks & Libraries :

React ●●●●●●●●○

Leaflet ●●●●●●●●○

Redux ●●●●●●○○○

#### Languages:

Typescript ●●●●●●●●○

JavaScript ●●●●●●●●○

PHP ●●●●●●○○○

SQL ●●●●●○○○○

Python ●●●●●○○○○○

- Designed and implemented nightly processes to notify travelers of expiring unused airline tickets and passport/visa documents, tailored per-client.
- Rewrote legacy systems to decouple frontend/backend architecture using secure custom HTML + JS components.
- Contributed to client-specific modules and one-off projects, later collaborating with Omaha-based devs for code review and system unification.
- Took initiative on tooling modernization, including a transition from Classic ASP to ASP.NET and PHP/Apache stack under new leadership.

## Education

### Odessa College | Odessa, TX

- Completed 34 credits towards an Associate of Science in Computer Science

### SUNY College at Oswego | Oswego, NY

- No degree