




Jeff Palmgren

Software Engineer | Tech Leadership | Full-Stack Development

 jeff@jpalmgren.pro

 <https://jpalmgren.pro>

 Conway, MO



Summary

Senior software engineer with 20+ years delivering full-stack solutions across energy and finance. Led teams of programmers, BAs, and QA staff while maintaining core systems and shipping new features. Skilled in modernizing legacy systems, integrating infrastructure, and executing projects independently in high-stakes, regulated environments.

Experience



Software Engineer

Sho-Me Power Electric Cooperative

-  2018 – Present
-  Marshfield, MO
- Built a **Clearance Order Application**, a critical safety tool for Bulk Electric System work; modernized stack from .NET Framework to .NET 8
 - Delivered full-stack automation tools with C#, SQL Server, Blazor, and .NET Core to eliminate manual weather workflows
 - Integrated SCADA, metering, lightning, and weather APIs to enhance outage response and load forecasting
 - Created services and scheduled jobs to sync data between **Solomon, EHS Insight, and other third-party systems**, ensuring consistency and reducing duplication
 - Built Power BI Dashboards for load forecasting and compliance reporting
 - Maintained internal GIS tools and created mapping utilities (e.g., QGIS lightning heatmap) for field support



Programmer Analyst Coordinator (Team Lead Equivalent)

Jack Henry

-  2005 – 2018
-  Monett, MO
- Led support and maintenance for core deposit systems used by hundreds of financial institutions; prioritized and delegated client development requests under strict compliance controls
 - Designed internal tooling to track custom logic across clients, improving upgrade safety and reducing regression risk in a high-stakes regulatory environment
 - Spearheaded development of a year-end tax form estimator, helping banks align with federal reporting requirements while avoiding over-ordering and fulfillment delays
 - Collaborated with BAs and QA teams to scope, implement, and validate full-stack enhancements across legacy and modern systems

Software Developer

Top Shelf Systems

-  2003 – 2005
-  Ash Grove, MO
- Maintained and adapted point-of-sale systems for retail and government clients; built conversion and issue tracking tools to streamline onboarding and support

Projects

Clearance Order Application

Digitized a paper-based workflow to coordinate Bulk Electric System field work. Enabled structured tracking of equipment status, required switching, and crew signoffs—improving safety, accountability, and system visibility.

Year-End Form Estimator

Built a tool to forecast tax form volumes using account data. Helped banks avoid shortages and over-ordering, easing compliance with federal deadlines while cutting waste and operational risk.

Prototype Projects (In Progress)

- Load Forecasting:* Training a machine learning model on historical meter and weather data to support proactive demand management.
- AR Field Tool:* Exploring an augmented reality interface to help crews locate underground infrastructure and visualize recent lightning strike data during inspections and outage response.

Tech Stack

Languages & Frameworks

C# | .NET | Blazor | HTML | JS | SCSS | SQL

Cloud & DevOps

Azure | Git | TFS | Windows Services

Data & Integration

SQL Server | Postgres | REST/ SOAP | JSON | Stored Procedures | ETL

Legacy & Niche Tools

Synergex | QGIS | Smallworld | VBA | VB6 | Access | Rails (legacy)

Current Interests

MAUI | ML.NET | Augmented Reality | Forecasting Models