

# GORDY E. FRANK

## **DEVELOPMENT LANGUAGES / TOOLS:**

C#, VB.NET, HTML/HTML5, CSS, JavaScript, jQuery, JSON, SQL, Oracle, Active Reports, QuickBooks SDK, Tortoise SVN, TFS (Team Foundation Server), Git, SQL Reports, Azure, Bootstrap, AutoMapper, Infragistics, Telerik, Actipro Components (WPF, ASP.NET), Telerik Kendo UI (ASP.NET MVC), Handsontable, NUnit, Moq, Google APIs (Maps, Sheets, Analytics), GitHub Copilot, ChatGPT API, Visual Studio, Visual Studio Code

## **DEVELOPMENT TECHNOLOGIES / METHODOLOGIES:**

ASP.NET, ASP.NET MVC, Entity Framework, WPF, WCF, Windows Console Apps and Services, Multi-tier C#/VB Client/Server and Intranet, ADO.NET, ODBC, IIS, SQL Server DTS/SSIS, T-SQL, PL-SQL, XML, SOAP, REST, SignalR, Agile, Waterfall, AI-enhanced coding (ChatGPT, GitHub Copilot)

## **DATABASES:**

SQL Server, Oracle

## **BUSINESS APPLICATIONS:**

QuickBooks, Microsoft Office Suite, Google Workspace, Microsoft Project, Visio, Salesforce, JIRA

## **PROFESSIONAL EXPERIENCE:**

**Beacon Technologies Inc./Smart Solutions, Inc./Sundial Software Corporation - Madison, WI**

*Senior Consultant* (09/2000 – Present)

- **Beacon Technologies Inc.** (05/2024 – Present) - Currently working as a Senior Consultant, delivering software solutions and system integrations for various clients.
- **Smart Solutions, Inc.** (07/2016 – 05/2024) - Joined Smart Solutions full-time after subcontracting with them on and off during my years at Sundial. Continued providing consulting services and specialized in large-scale software development projects.
- **Sundial Software Corporation** (09/2000 – 07/2016) - Worked as part of an in-house development team delivering custom software solutions for business clients. Frequently collaborated with a team to design and develop in-house software projects, while also subcontracting with Smart Solutions, Inc. Transitioned to Smart Solutions when Sundial's owner shifted the company's direction.

**University of Wisconsin Foundation** (05/2024 – Present)

**Web Based: Grants, Scholarship, Donors Funding System (Remote Role)**

- Developed and maintained a web-based system using JavaScript, AngularJS, SQL Server, and ASP.NET, addressing bugs, implementing enhancements, and optimizing performance.
- Integrated Google Analytics 4 (GA4) API to create web reports with real-time analytics data.
- Designed a Privacy Acknowledgment popup for compliance, logging user consent.
- Redesigned an AngularJS fund entry form, reducing a five-step process to one, saving hours of daily work.
- Participated in sprint planning and standups, ensuring timely delivery of features and bug fixes using JIRA for task management.
- Upgraded project libraries to the latest .NET Framework and NuGet packages following a security audit.
- Guided junior developers by offering support and resolving technical challenges.

**Kikkoman Corporation** (07/2018 – 06/2024)

**Enterprise Management System EMS (Remote Role)**

- Rewrite of legacy VB6 system into WPF/C#/MVVM/XAML with Oracle backend, including legacy PL-SQL Excel and Crystal reports in the EMS.
- Contributed to the full development lifecycle of soy sauce production process applications used across global food manufacturing facilities in the U.S., Netherlands, and Singapore.
- Developed a web-based solution to make API calls to Google Sheets, enabling global tracking of software bugs and enhancement requests.
- Acted as a mentor and technical resource for junior developers, guiding them through project challenges and best practices.

## **Quartz Health Solutions (06/2016 – 07/2018)**

### **Fast Integrated Rating Engine (FIRE) project (Remote Role)**

- Led full-stack development using ASP.NET MVC (C#), handling end-to-end tasks from database design and Entity Framework to backend objects, RESTful APIs, and complex client-side functionality.
- Architected JavaScript modules and integrated third-party libraries to enhance front-end interactivity and performance.
- Mentored junior developers, providing technical guidance on best practices for full-stack development.
- Created accurate development estimates to support Sprint planning and ensure on-time delivery of key features.
- Collaborated with business analysts and end-users to clarify requirements, address design challenges, and ensure alignment with project goals.
- Conducted demos and code walkthroughs, bridging communication between development teams and business stakeholders.

## **Epic Life Insurance (06/2015 – 06/2016)**

### **Life Insurance group benefits administration and employee benefits enrollment system. (Remote Role)**

- Developed a new website using ASP.NET MVC with a database-first approach in Entity Framework, Bootstrap, and Telerik Kendo UI.

## **Wisconsin Interactive Network (11/2015 – 05/2016)**

### **DNR GoWild System (Remote Role)**

- Developed a new website for the Department of Natural Resources (DNR) using ASP.NET MVC with a code-first Entity Framework approach for the GoWild system.

## **Hellenbrand Glass (12/2014 – Present)**

### **Project Management, estimates, quotes, and scheduling system (Remote Role)**

- Rewrote a Windows client-server application for project and job management to an ASP.NET MVC application using Entity Framework.
- Set up and deployed the solution on Azure VMs.
- Developed SSIS migration packages to transfer data from the legacy application to the new web-based system.

## **University of Wisconsin Foundation (12/2013 – 12/2014)**

### **Web Based: Grants, Scholarship, Donors Funding System**

- Developed a secure and scalable ASP.NET N-tier web solution for the campus-wide, multi-million dollar donor funding system.
- Utilized ASP.NET for server-side processing, with jQuery and Bootstrap to ensure client-side responsiveness.

## **GoKidGo Transport & Tours, LLC. (10/2011 – 06/2017)**

### **Dispatch, GPS Tracking, Notifications, Scheduling, Registration, Billing and Invoicing system.**

- Led the development of multiple phases of the ASP.NET web-based applications, including web services for communication with GPS devices and integration with Google Maps through API.
- Created Windows services to send email and SMS notifications to subscribers with real-time updates on pickup and drop-off times.
- Set up and deployed the solution on Azure VMs.

## **Life Technologies (03/2013 – 1/2013)**

### **Scheduling System**

- Developed a new module using WPF, C#, and MVVM to help scientists prioritize and schedule test runs.
- Built web services with WCF to facilitate data exchange between front-end customer systems and back-end scientific tools.
- Created and executed NUnit tests to ensure the reliability of these methods.
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## **Sundial Software (In-house development team) (10/2011 – 06/2017)**

### **Business Application Development and Design**

- Agrigraphics: Designed and developed a content management and project management website, including QuickBooks data synchronization with web-based SQL data.
- Flair Packaging Corporation: Managed data conversion and customizations, merging data from a cloud-based CRM with SQL-based financial systems. Developed front-end management tools in ASP.NET and customized Salesforce using jQuery.
- Mentored junior developers, providing guidance and technical expertise.
- Maintained and deployed .NET websites to Azure VMs running IIS and SQL Server for all Sundial clients.
- Acted as the technical support contact for several business clients, troubleshooting and resolving issues ranging from minor bugs to critical business problems.

## **Life Technologies (09/2010 – 10/2011)**

### **Compound Management System**

- Developed complex UI and business logic for Compound Receipt and Compound Verification modules using WPF, C#, and MVVM.
- Contributed to all phases of development, creating informatics tools to help scientists verify, register, and dilute compounds, as well as guide them on setting up compounds for lab plate testing.
- Built a WPF touchscreen application that orchestrates test runs and communicates with an in-house plate testing machine.

## **Echo Ridge Partners (06/2010 – 09/2010)**

### **iCatalyst System**

- Contributed to a rapid application development (RAD) project for the casualty insurance industry using WPF, C#, MVVM, and MEF.
- Worked on multiple iterations, implementing UI components with Infragistics and Telerik controls, and used DevForce IdeaBlade for data access.
- Focused primarily on the View and ViewModel layers, consuming data access and MEF objects provided by the system architect.

## **Alliant Energy (06/2008 – 02/2011)**

### **Call Out Responder System**

- Designed, developed, and implemented multiple phases of a system used by Alliant Dispatch Centers to automate after-hours emergency call-outs for service personnel.
- Led the first team at Alliant to adopt WPF and C# technologies, implementing the MVVM design pattern for this business-critical client application.
- Developed an ASP.NET/C# web application with Crystal Reports, enabling field managers to view and enter information.
- Created and executed data migration and conversion scripts to transfer information from the legacy database to the new database structure.

### **Construction Reporting Information System**

- Contributed to all aspects of this high-profile C#/Oracle business application, including backend database design, database objects, UI development, and Crystal Reports.
- Developed complex Windows console applications for ERP to CRIS data migration.

## **Sundial Software (In-house development team) (03/2003 – 06/2008)**

### **Business Application Development and Design**

- Developed several large ASP.NET/C# web applications for diverse business needs, including a trucking company managing drivers and schedules, and a website for parents to manage autistic children's therapy. These applications featured advanced UI elements such as video upload/download and treatment plan wizards with scheduling.
- Built a rich client-server database analysis application and created multiple SQL Server 2005 SSIS interfaces to support data integration.
- Developed several VB.NET WinForms applications interfacing with third-party accounting systems.
- Created a shipping management system for a flower wholesale company, streamlining operations by reducing data entry duplication and speeding up label printing, saving the company significant time.
- Designed a WinForms application for an internet consulting group, automating the process of transferring web order data into QuickBooks, eliminating manual data entry and an entire job function.
- Built a project and job management system for a window and glass company, integrating it with their accounting software and replacing their manual, paper-based processes.
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## **Famous Footwear/Brown Shoe Company (12/2003 – 06/2007)**

### **Legacy Report Conversion**

- Developed a series of business-critical Crystal Reports for Naturalizer Shoes, replacing a legacy mainframe reporting system.
- Implemented user access to reports through Crystal Enterprise Manager (Report Application Server).
- Set up batch processing using Crystal products to automatically distribute reports to printers and send them to users via email.

## **Wisconsin Department of Administration (09/2000 – 03/2003)**

### **Capital Accounting System**

- Designed and developed SQL databases, business objects, and VB/ASP web interfaces.
- Collaborated with mainframe programmers to integrate legacy data, setting up 30+ automated daily and monthly uploads using SQL DTS, while resolving key data compatibility issues between relational SQL and legacy flat file systems.
- Created and consulted on 20+ VB COM+ business objects for web and client interfaces.
- Developed VB front-end applications and Crystal Reports for the State of Wisconsin's interest distribution process.
- Enabled real-time access to legacy data in the Capital Accounting system by using VB COM+ objects to post XML data to IBM WebSphere. Developed IBM Host Publisher web services to handle mainframe transactions via WebSphere.

### **Department of Administration Purchasing System**

- Developed interfaces between the web-based purchasing system and legacy systems using VB 6.0, ASP, SQL BCP, and SQL DTS.
- Migrated critical legacy payment data into Purchase Plus SQL Server databases.
- Replaced high-maintenance ASP reports with web-based Crystal Reports, reducing staff maintenance by 4 hours weekly.
- Optimized performance by using XML to create a Visual Basic Session Object with MTS, eliminating session variable overhead.
- Designed interfaces and archive tables to transfer purchase orders and payments from relational to flat archive tables.
- Contributed to troubleshooting, enhancements, and development of new ASP pages for the Purchase Plus web application.

## **Gilman Engineering and Manufacturing Co. (05/1999 – 09/2000) - Janesville, WI**

### *Software Engineer*

- Led the design of the Visual Basic middle and database tiers for an Oracle-based parts database application, utilizing IIS and MTS on a web server.
- Developed Excel applications using VBA for the Quality Assurance department, including a tool that assists engineers in entering machine design specifications and calculating tolerances. This tool was praised during a quality audit as a "significant advancement over the previous system."
- Established and implemented coding standards for the IT department, covering database design, web development, and application development.

## **Sheriff's Department, McHenry County (11/1998 – 05/1999) - Woodstock, IL**

### *Client Server Developer*

- Analyzed and designed a new Sheriff's information system by conducting user interviews, consolidating 17 standalone legacy applications and databases from various departments—including a large correctional facility, evidence room, and warrants—into a unified SQL Server-based VB application.
- Coordinated the project with multiple external consultants to ensure alignment and progress.
- Developed several Visual Basic client/server applications and Crystal Reports to input and retrieve information from the shared database.

## **Swedish American Health System / Benchmark Health Ins. Co (04/1995 - 11/1998) - Rockford, IL**

### *System Coordinator/Coordinator Programming and Data Reporting*

- Advised leadership on productivity solutions for claims and accounts payable software, implementing improvements through custom programming and database manipulation.
- Developed VB 5.0 applications, including a Nurse's Notes system that reduced paperwork and a Claims Auditing program that saved two hours of daily data entry.
- Managed systems staff and oversaw the production of over 200 standard and ad hoc reports for internal and external clients using Crystal Reports and SQL.
- Automated insurance member enrollment downloads, reducing data entry by 20 hours per week.

### **Professional Development:**

- The Complete Prompt Engineering for AI Bootcamp – Udemy, 2024
- .NET Core MVC - The Complete Guide [E-commerce, .NET 8] – Udemy, 2024
- Angular Front To Back - Udemy, 2018

### **Education:**

- Associate of Science in Mathematics - Rock Valley College, 1994