

## Summary

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- Expertise architecting, developing and troubleshooting applications through all layers (code, server, database).
- 10+ years of database experience: designing, tuning, and optimizing database objects and complex SQL queries.
- 10+ years of development experience across an assortment of languages, with a central focus on the .NET stack.
- Project management experience taking products through the entire software development lifecycle.
- Strong customer interaction skills: experience gathering requirements and managing client expectations.
- Longtime technology enthusiast and I/T generalist.

## Professional Experience

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### **Memorial Hermann Health System - Houston, TX [2014 - Present]**

#### *Application Architect [2017 - Present]*

- Improved architecture for public application with 100k users, identifying bottlenecks and improvement opportunities, reducing load times by 35%+.
- Increased efficiency of maintenance and debugging for new patient portal by migrating to a different technology stack in which the developers were more familiar.
- Evaluated and provided technical leadership regarding new technologies and strategies for implementation/integration.
- Presented architecture for new patient portal and its integrations with a new alpha offering from a medical records vendor at national health care conference.

#### *Senior Programmer / Analyst [2014 - 2017]*

- Led development for a .NET web application for virtual post-surgery follow-up visits over video by consuming APIs from the Vidyo platform, providing patients more options to save time and money.
- Architected an extensible system for referrals for post-acute care by combining the power of our Microsoft Dynamics CRM system with an .NET web application, which provides thousands of referrals per year.
- Improved relationships with internal clients by applying agile methodologies to our backlog, coordinating regular meetings with key stakeholders, and setting expectations around timelines to create a system of accountability.
- Architected and coordinated successful major CRM upgrade, moving from Dynamics 2013 to 2016, migrating app servers to Windows 2012, updating firewall rules, and moving databases to SQL 2012 environment. Updated all integrations and reports with minimal impact to end users.
- Shepherded multiple projects through internal architecture review process to ensure that risks and impact were mitigated and minimized, helping to ensure the successfulness of the projects.
- Participated as member of development steering team, helping to guide the developer community to the best solutions and practices for the organization.

### **The Dow Chemical Company – Midland, MI; Freeport, TX [2004 - 2014]**

#### *Lead R&D Systems Analyst / Developer - Freeport, TX [2007 - 2014]*

- Project lead for a custom LIMS web application, utilizing a Nautilus LIMS backend (~700 users globally):
  - Lead developer for a global project team with five developers.
  - Architected to work with multiple LIMS databases based on custom web.config transformations.
  - Pioneered build and publish processes, as well as new technologies for the workgroup.
  - Considered by clients one of the "smoothest rollout of a global tool" they'd ever experienced.
- Organized High Impact Teams multiple times to investigate, diagnose, and address crucial production issues.
- Managed a variety of projects:
  - SharePoint migration from 2007 to 2010, combined with a server move from Texas to Michigan.
  - Implementation of Search for R&D (MS FAST), connecting to various R&D data repositories and systems.
- Mentored junior developers on coding, investigative, and client interaction skills.
- Provided expertise and guidance with security incidents, investigating and hardening security measures in applications and on servers with minimal impact to users.
- Architected, developed, and implemented various applications:
  - Web application for project planning using ASP.NET and JavaScript, eliminating redundant spreadsheets.
  - Scenario tool for budget planning, using custom SQL to evaluate the impact of various budget scenarios.
  - Offline modeling program in C# that could re-sync its internal database when back online, empowering researchers out in the field without access to the internet.

- Various search approaches for custom repositories (typically defining SQL queries for iteration and definition) and for federated data (parsing data from 3rd party sources into JSON).

*Service Technologist / Technical Co-op - Midland, MI [2004 - 2007]*

- Trained individuals for web page development that would meet corporate coding and branding standards.
- Improved intranet stability with innovative solutions, such as improving the website isolation process.
- Recognized in Nielsen Norman Group's 2007 Top Ten Intranets for work on Dow Chemical Intranet.

## Technical Skills

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**Software:** Visual Studio, SQL Management Studio, Team Foundation Server (TFS), IIS, Visio, Tableau  
**Languages:** C#, T-SQL, Visual Basic, JavaScript, Classic ASP  
**Technologies:** ASP.NET, .NET Core, REST/Web API, jQuery, JSON, MVC, CSS, HTML, Bootstrap  
**Databases:** Microsoft SQL Server (2000 - 2012), Oracle (10g, 11g)  
**Systems:** Windows Server (NT4 - 2012), Linux (Ubuntu/BusyBox)

## Education

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### **Saginaw Valley State University - University Center, MI [2005 - 2007]**

*Bachelor of Science in Computer Science*

**GPA:** 3.815/4.000, *summa cum laude*

- SVSU ACM Activities Director: organized events, outings and competitions; provided expertise to group.
- Designed labs for professors' to use in their curriculum: Creating a SSH tunnel via port-forwarding; Constructing a simple LAMP (Linux/Apache/MySQL/PHP) environment.

## Volunteer Work

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### **Brazosport Center for the Arts and Sciences - Clute, TX [2012 - 2013]**

- Modernized the organization's website to improve cross-browser compatibility by utilizing technologies like jQuery and Bootstrap.
- Developed a custom CMS (Content Management System) to improve ease of maintenance and generation of new content.