

# Shawn C. Wale

Santa Rosa, California • www.MindsEyeDev.com

Systems Architect • Multi-Platform Developer • Team Lead

ShawnWale@MindsEyeDev.com

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HTML\JavaScript Web Apps ♦ Windows Desktop\Server Apps ♦ Web Services ♦ SQL Database\Reporting Systems

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## **System Design & Team Leadership:**

**Systems Architect:** Translate business, marketing, scheduling and budgetary requirements into effective technology strategies; API\Framework design, development and evangelism; evaluate, recommend and adopt new technologies; design and prototype new systems and apply enhancements to existing ones; leverage and integrate existing software assets with future objectives and technologies.

**Development Team Lead:** Plan, estimate, delegate and monitor team assignments; coordinate development, testing, deployment and support across associated local and geographically dispersed departments; balance hands-on Lead Developer responsibilities with management of development team and collaboration with stake-holders; create agile and quality-oriented software development processes; adept in smaller entrepreneurial environments and larger corporate IT environments.

## **Full-Stack Programming:**

**Web Applications:** Design and programming of HTML, XML, JSON, JavaScript, AJAX, Sencha ExtJS, jQuery, jQueryUI/Theme-Roller. Back-end REST API services, Microsoft WCF\C# web services, and Oracle\MS-SQL\IBM DB2 database systems; custom browser integration into WinForm desktop applications.

**Microsoft C# and .NET Framework:** Object-oriented design and programming for Windows desktops and server background processes\services; WCF SOAP web services; multi-threaded asynchronous processes; .NET COM Interoperability; MSI deployment packages; ADO.NET\ODBC\OLEDB data access, object de\serialization; FTP\HTTP\SMTP clients, web-service reverse-engineering and consumption, automated web search tools; hybrid C#, VB.Net & VB6 systems.

**Hybrid Systems:** Advanced design and programming of complex heterogeneous and metadata-driven architectures integrating JavaScript, .NET, legacy COM\VB6, WCF web services (json/xml), FTP\HTTP, databases, and other disparate platforms, libraries, APIs and services often involving 3<sup>rd</sup> party and open-source software evaluation, integration, and customization.

**IBM Cognos Analytics & iSeries/DB2:** Advanced programming with the IBM Cognos C# SDK & SOAP-based API; report definition management and foreground\background execution, report parameter management, output type selection, burst file support, report job creation and foreground\background execution, report job and dispatcher\event monitor status checking, external output file storage and distribution. IBM DB2 SQL database design and stored procedure development.

**Microsoft SQL Server Replication\RMO:** Custom programming with the Microsoft Replication Management Objects (RMO) API\SDK; Replication publisher\subscriber setup and synchronization, replication server setup and administration, LAN\WAN and internet-based replication protocols; automation and embedding of synchronization services within custom applications.

**Microsoft SQL Server:** Advanced SQL programming (DML\DDL); database design, basic server administration, TSQL stored procedures, data analysis\analytics, report writing, data import\export (SSIS), LAN\WAN and internet replication topologies, publisher\subscriber setup and synchronization, application access & design optimizations.

**Oracle:** Advanced SQL DML\DDL and PL\SQL stored procedure creation, database design, data analytics, report writing, data import\export; automated Oracle Report Server (ORS) RDF report submission, output archival and distribution, custom CSV to Excel formatting automation with VBA macro processing; application access & design optimizations.

**Custom Web Search and Data Acquisition:** Advanced HTML and deep-web search; form navigation, link traversal, cookie and state management; custom user agents; XPATH\HTML/XML\JSON; data field search, collection, aggregation and archival; automated JavaScript execution (via .NET assemblies outside the browser), web service reverse-engineering.

**ActiveX\COM, Microsoft VB6, Excel VBA:** Advanced design and programming of VB6 systems for standalone use or for bi-directional .NET COM Interoperability; Win32 API integration; applications and framework\library components; Excel VBA automation; asynchronous\multi-threaded processing; responsive screen layouts; ADO\ODBC\OLEDB data access; FTP\HTTP\SMTP clients.

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## **Professional Experience & Education:**

**2016-Present:** *Lead Developer.* Jackson Family Wines, Santa Rosa CA:

Design, implement, test and deploy features, modules and data analytics tools for browser-based Wine Production System using HTML, JavaScript, Sencha ExtJS, CNX Valence, IBM iSeries, RPG4\LE, and IBM DB2 SQL. Upgrade legacy mainframe systems and processes with modern AJAX and SQL techniques. Enhance system architecture and software stack; optimize and standardize build and deployment processes. Normalize and optimize database schema; implement modern database structures and web service APIs. Create written and video-based training materials for development team and end-users.

**2000-2017:** *Independent Software Consultant, Mind's Eye Development,* Santa Rosa CA. Provide remote Software Development and IT Consulting Services to a variety of local and national businesses. Notable successes include:

- 2001-2016: **Risk Management Information System (RMIS) Vendor, Atlanta, GA:** Lead full-stack Software Architect\Engineer for various systems including a production report processing and distribution system (Oracle & IBM Cognos) and its associated management console (Windows, browser\mobile); Decreased report failure rate by 50%-75% and increased report speed by 80%-250%. Provide development and support for RMIS product (Windows\Citrix, VB, Oracle, PL\SQL) and prototyped the mobile\browser-based report module successor; Provided system performance analysis and tuning. Created documentation and video demonstrations for training of offshore technical resources.
- 2012-2016: **Super Yacht Automation System Vendor, Incline Village, NV:** Combined project management, communication, leadership and technical skills to deliver a database replication system for their Vessel Automation product after 3 previous consulting firms had failed. Collaborated with the Founder\Chief Technologist on the design strategy, implementation and deployment of automated replication services for synchronizing vessel-bound databases with a central MS SQL Server. Provide ongoing C#, VB.NET, MS-SQL and MS-RMO programming as well as process optimizations and support.
- 2005-2017: **Transoceanic Shipping & Logistics Provider, AZ\CA\WA:** Combined advanced application, O\S and database experience to maintain an unsupported RMIS system and its associated legacy technologies. Provided MS SQL Server database administration; custom application and report development; two-way accounts payable interfaces; data migration to third-party claim systems; end-user support.

**1998-2000:** *Director of Product Development,* Risk Sciences Group Inc., Atlanta GA:

**Lead Strategist:** Increased market share and client retention by conceiving, prototyping, and managing the implementation, deployment and second-tier support of a new RMIS product line. Designed a comprehensive plan for organizing roles, responsibilities and processes of a newly established corporate IT department; managed a group of Server\Network Engineers and Software Developers spread across 4 cities and 3 time zones.

**System Architect and Lead Engineer:** Analyzed internal and competitor systems and interviewed operations staff and their clients to determine business needs; worked with Senior Management, Marketing, Operations, and Product Management teams to determine business strategy. Planned product road maps and schedules. Researched and recommended new technologies. Orchestrated execution of product strategies with infrastructure and production teams. Implemented key portions of the UIs, middle-tier services, and databases. Coordinated the integration\testing of team deliverables into the final product. Performed binary build management, created deployment processes, and managed source code version control.

**1990-1998:** *Senior Systems Consultant & Project Leader.* Risk Sciences Group Inc., Corte Madera CA:

Installed and supported software applications, data communications, workstations, servers, and networks. Designed and developed client-facing Risk Management applications, data loads and analytical reports. Designed and prototyped a new product concept and was promoted to **Director of Product Development** to execute the strategy.

**1986-1990:** *IT Consultant & Software Engineer,* Profit Plus Software, Sausalito CA:

Designed, developed and supported software applications for the Banking, Investment, and Radio Broadcasting industries. Installed and managed software applications, networks, workstations and servers for clients.

**Education:** *Bachelor of Science Degree in Computer Science/Theory with a minor in Mathematics,* 1988, Sonoma State University. Ongoing self-directed technology discovery, skills development, and associated research projects often leading to new products or services for partners, employers and clients.