

Shawn C. Wale

Mind's Eye Development
Santa Rosa, CA 95405

Full-Stack Developer · Software Architect · Team Lead

ShawnWale@MindsEyeDev.com
www.MindsEyeDev.com

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

Programming:

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.

Web Applications: Design and programming of HTML, XML, JSON, JavaScript, AJAX, jQuery, jQueryUI, jQueryUI Theme-Roller, custom jQueryUI widgets\controls, jQMobile, jqGrid, and associated back-end WCF\C# web services and Oracle\MS-SQL database systems; custom browser integration into WinForm desktop applications; Windows SideBar Gadgets.

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

IBM Cognos Analytics: 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.

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 (v4.21 - 2012): 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 (9i – 11g): 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.

Design & 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.

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Professional Experience & Education:

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

- 2001-Present: **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 Report Server & IBM Cognos Analytics) and its associated management console (Windows, browser/mobile); Decreased report failure rate by 50%-75% and increased report execution speed by 80%-250% depending on the report type. Provide development and support for their SIGMA Encore RMIS product (Windows/Citrix, VB, Oracle, PL\SQL) and prototyping for the mobile/browser-based successor to the reporting module; general application/database performance analysis and tuning. Create documentation and video demonstrations for training of offshore development resources.
- 2012-Present: **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 strategy, and then designed, implemented and deployed automated C# services for synchronizing MS SQL Server Express databases running on the Vessels with MS SQL Server Workgroup/Enterprise servers based on land over satellite WAN/Internet connectivity using a 3-tiered Merge replication topology via the MS RMO API. Provide ongoing C#, VB.NET, MS-SQL and MS-RMO programming as well as process optimizations and support.
- 2005-Present: **Transoceanic Shipping & Logistics Provider, AZ\CA\WA:** Combine advanced application, O/S and database experience to keep the outdated/unsupported technologies of a 2 decade old RMIS system running on modern workstations and servers. Provide installation and support of the RMIS claims administration & reporting application; 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 expanding and evolving the RMIS product line. Conceived, designed, prototyped, and managed the implementation, deployment and second-tier support of a new RMIS product called SIGMA Encore. Designed a comprehensive plan for organizing roles, responsibilities and processes of a newly established corporate IT department; became the Development Team Lead for implementation of SIGMA Encore and managed a group of Server/Network Engineers and Software Developers spread across 4 cities and 3 time zones. Determined individual work assignments and schedules, monitored their progress, and gave performance reviews.

System Architect: Analyzed existing enterprise systems (internal and competitor). Interviewed operations staff and their clients to determine business needs; worked with Senior Management, Marketing, Operations, and Product Management teams to determine business strategy and to plan the product road maps, schedules and budgets. Researched and recommended new technologies. Coordinated execution of the product strategy with the infrastructure and production teams. Translated high-level business requirements into technical designs and specifications. Built prototypes for core systems and services and directed teams in the completion and expansion of those systems.

Lead Full-Stack Developer: Implemented key portions of the software infrastructure (UIs, middle-tier services, databases) and 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: *BS Degree in Computer Science/Theory with a minor in Mathematics*, 1988, Sonoma State University. Ongoing technology research, skills development, and associated extracurricular projects often leading to new products or services for partners, employers and clients. There is always something new and amazing to learn.