

Frank W Hagen

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SENIOR SOFTWARE ENGINEER – BUSINESS SYSTEMS ANALYST

30 years of professional experience crafting software solutions to various business challenges from online training applications to EDI processing. Experience includes working in diverse environments from small corporate offices, large healthcare organizations, remote development, and onsite consulting for automated ports.

Development expertise focuses on delivering performant, and highly reliable software solutions that require little maintenance to solve client needs. Well received solutions have included desktop applications, public facing web applications with thousands of concurrent users, back-end Windows Services to run Enterprise-critical functions, internal corporate Intranet sites and web applications featuring role-based security, and Web Services consumed by other applications as a reliable data source.

CORE STRENGTHS

- Enterprise Capable Back-End Services
- Web-Based Front-End Reporting
- Desktop Application Development
- Customer Needs Assessment
- Software Development Life Cycle
- Experienced with High Performance, Mission Critical, Real-Time Systems
- Expertise in X.12 EDI Coding, Translation, Clean-Up and Delivery
- Development of Application Architectures
- Microsoft .NET Stack Developer for Day-to-day Development Tasks

TECHNICAL SKILLS

- High Level Languages: C, C++, C#
- Presentation Frameworks: HTML, WPF, WinForms, ASP.NET, ASP.NET Core API
- Web Servers: Microsoft IIS (all versions), IBM WebSphere, Apache
- Database Languages: T-SQL & PL/SQL
- Data Formats: X.12, EDIFACT, XML, json, CSV, XLS, Markdown
- Development Tools: Microsoft Visual Studio, Microsoft SQL Server Management Studio, Oracle SQL Developer, Toad for Oracle, and many various text and markup editors

PROFESSIONAL EXPERIENCE

Port Solution Integrators, Inc – Portsmouth, VA – 2011 to Present

Senior Software Development Consultant for the Ports of Virginia/North Carolina

Providing software services to clients as needed, maintaining legacy systems, developing centralized, web-based, high performance reporting tools, data extracts from TOS systems, and EDI support.

- Designed and developed high-performance real-time EDI Transform application to replace legacy system targeted to new Navis N4 TOS. Design includes:
 - Routing of various transactions to multiple TOS instances based on information in incoming EDI files, details of Vessel Visit scheduling at different ports, or configurable overrides.
 - Configurable transformations of EDI data from configuration files or database lookup tables
 - Correction of incoming EDI formatting to standards required by N4
 - Real Time Reporting and Search capabilities
 - Email and Desktop alerting tools
 - System currently processes over 32,000 EDI messages per day
- EDI Transform application modified and packaged as product and sold to Port of North Carolina

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- Created multiple desktop and web-based applications to support port operations, including Damage Tracking & Repair, Gate Volume & Turn Time Reporting, Crane Operations Performance, and others.
 - Created multiple data extract services to provide internal and external customers with data feeds, including Finance reports, Stevedoring Operations reports, Billing, RMG tracking, and others.
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CodeHagen, LLC – Chesapeake, VA – 2013 to Present
Independent Software Consultant – Various Clients

Creating backend solutions to match EDI data to various in-house data systems, including JDE, legacy HP MPE, and others.

- EDI solution for tool manufacturer to streamline orders from large retail customers and invoicing back to same, including web-based administrative tooling, FTP and SFTP communications, alerting, and more
 - Sales data interfaces for remote salesmen for up-to date order data from HP MPE data stores
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Advanced Health Media – Chesapeake, VA – 2010 - 2011
Sr. Software Engineer

Lead project teams to create Client specific versions of company's primary web application while expanding product capabilities. Web application was designed to track expenditures on professional consultants in order to operate with strict Federal guidelines, provide IRS reporting, and forecast opportunities.

- Expanded product offering by engineering a full content management system with unlimited multilingual support, and several data and processing optimizations
 - Managed local, remote, and offshore team members for coordinated efforts against challenging deadlines and delivered a functional product
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Channel Blade Technologies – Virginia Beach, VA – 2008 - 2009
Contract Software Developer

Worked with product team to develop multi-site website engines with full inventory search capability for the recreational boating industry in an Agile development environment.

- Re-engineered inventory search engine from the ground up to allow for single SQL database to run 40+ boating dealers websites with shared inventories
 - Developed secure promotional code generator for industry events, encoded with various "seed" data
 - Created automated build environment for all deliverables from code repository to staging binaries
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Pinpoint IT Services – Virginia Beach, VA – 2008 - 2010
Sr. Software Engineer / Technical Hiring Manager

Contract developer for Channel Blade Technologies, and Advanced Health Media. Also served as first-tier screening of candidates for placement.

Additional Experience and references available upon request