

SEAN T. CARPENTER

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Objective

A position in a software company utilizing my diverse background and experience in software development where I can contribute to the company's success while increasing my technical expertise.

Software Experience

- Microsoft .NET Framework (1.1, 2.0, 3.5)
- Open Source Tools (NHibernate, Lucene.Net, log4net, Castle.DynamicProxy2, Castle.Windsor, NVelocity)
- Microsoft SQL Server versions 6.5, 7.0, 2000, 2005, and 2008
- Microsoft SQL Server Reporting Services
- Microsoft Visual Basic versions 5.0 and 6.0
- MS SQL Server tools including BCP, DTS, and transactional and snapshot replication
- Seagate Crystal Reports versions 8.0 and 8.5
- Ruby as used in Rake and Rails

Awards and Certifications

- Microsoft Certified Solution Developer (MCSD) – Microsoft .NET
- Microsoft Certified Database Administrator (MCDBA) – MS SQL Server 2000
- Johnson & Johnson Achievement Award – awarded for outstanding performance while upgrading high-purity water system at Puerto Rico facility

Professional Experience

VertMarkets, Inc.

Senior Web Developer

May 2006 – Present

Senior technical position with responsibility for database and application design, development, and support. Responsibilities include requirements gathering, system design, coding, code review, and post-deployment support.

Key Accomplishments:

- Designed and developed VertMarkets' next generation portal framework supporting 70 online industry portals. Framework consists of an NHibernate-based data layer, POCO domain layer, and ASP.NET MVC UI. Created new data driven homepage, document display pages, and miscellaneous feature pages for 70 portals using the new framework.
- Utilized MbUnit, NUnit and Rhino.Mocks to support Test-Driven Development and automated unit testing. Set up and maintained a CruiseControl.Net server (later migrated to JetBrains' TeamCity) for continuous integration.
- Created a Rake-based build process that compiles code, runs tests, and deploys sites automatically.
- Enhanced portal search capabilities utilizing Lucene.Net to provide faster, more relevant results.
- Planned deployment strategy for new framework utilizing a reverse proxy server to serve legacy pages from existing web farm while deploying new pages to a new farm.
- Created an NHibernate event listener to add audit trail functionality seamlessly to domain classes. Classes are marked for auditing via custom attributes.
- Designed and implemented SQL Server replication between legacy SQL Server 2000 schema and new SQL Server 2008 schema so that existing document creation tools could be utilized to feed the new front end.
- Supported portal newsletter creation and mailing system including newsletter creation tools, open/click tracking, and automated list maintenance (unsubscribe/invalidation).
- Contributed patches to NHibernate, Lucene.Net, and NVelocity as part of development.
- Contributed to the design and development of a web server log parsing system used to report page views and user sessions broken down by portal and advertiser.
- Supported existing portals using ASP, VBScript, VB 6, Java, and C++.

ProMetrics Consulting, Inc.

Chief Software Architect

December 2003 – May 2006

Technical leadership position with responsibility for database and application design, development, and support. Responsibilities included requirements gathering, system architecture design, application coding, code review, and system support.

Key Accomplishments:

- System architect and lead developer for a pharmaceutical sales force automation system consisting of ASP.NET and PDA clients. Designed database, application, and communication systems and performed all back-end and website coding. Supervised and reviewed all PDA coding. System utilized SQL Server, MSMQ, and XML web services in a multi-layered design.
- Analyzed legacy report generation system and data for conversion to updated system which reduced report generation lag time from 90 days to 20 days.
- Designed and developed a custom ASP.NET front end that provides clients with customized querying capability against their data stored in Microsoft SQL Server Analysis Services cubes.
- Wrote database scripts, stored procedures, and DTS packages to support generation of daily, weekly, and monthly reports for pharmaceutical clients.
- Implemented a data loading solution utilizing Microsoft BizTalk Server to reduce daily data loading tasks from 3+ hours to 30 minutes.
- Implemented a daily report solution using Microsoft SQL Server Reporting Services, ASP.NET web services, and a Windows service to automatically send daily sales reports via email to 80 sales representatives.
- Supported multiple legacy sales force automation systems using ASP, VBScript, and SQL Server.

Merck & Company, Inc.

Senior Automation Engineer

May 2003 – December 2003

Provided automation support to PA vaccine manufacturing facility. Responsibilities included contractor supervision, vendor management, and control system programming. Also responsible for maintaining patch levels of control system hardware and software.

Key Accomplishments:

- Replaced a legacy control system with an up to date system that reduced downtime, improved security, and improved compliance with FDA regulations.

T-Mobile USA

Manager, National Applications

July 2000 – May 2003

Supervisory position with responsibility for database design and administration, national reporting, and in-house application development. Responsibilities included requirements gathering, specification generation, coding, code review, hardware and software specification, and production database and application support. Supervised three Visual Basic developers, two database administrators, and one web developer.

Key Accomplishments:

- Instituted standard reporting format for national reports utilizing Crystal Reports.
- Led the application and database design and development for a cell tower management system tracking over 17,000 sites nationwide and serving 2500+ users.
- Designed and implemented a process to collect data from nationally distributed Sybase and Oracle data sources and consolidate key data into MS SQL Server.
- Served as database administrator for four nationally deployed MS SQL Server databases spanning four servers with sizes ranging from 500 MB to 45 GB and serving 1500+ users.
- Successfully migrated two 24x7 MS SQL Server 7.0 servers to MS SQL Server 2000, including a transfer to hardware utilizing Microsoft Cluster Service.
- Implemented a standard backup/recovery procedure for all production database servers.

Ortho Biotech Inc.

June 1996 – July 2000

Software / Process Engineer

Provided engineering support to two Puerto Rico manufacturing facilities. Responsibilities included process support and troubleshooting, control system design and programming, and facility expansion projects.

Key Accomplishments:

- Lead engineer for control system design and programming during expansion of Puerto Rico biologics manufacturing plant.
- Supervised specification, purchase, installation, and start-up of purified water system for plant expansion, reducing utility consumption and waste water generation.
- Streamlined historical data collection, storage and retrieval by writing SQL scripts and utilizing Crystal Reports.
- Programmed control system (including operator workstations and programmable logic controllers) for high-purity water system upgrade.
- Upgraded autoclave control system from vendor-specific technology to plant standards, reducing support costs and simplifying maintenance.
- Updated plant-wide data collection system to current technology allowing for better data capture and analysis.

Education

Pennsylvania State University – B.S. Chemical Engineering, June 1996, Cumulative GPA 3.50