

David Vincent Miles  
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## Software Engineer/Architect

Solutions oriented software engineer that has successfully implemented a broad range of corporate initiatives by participating in the planning, analysis and development of software solutions in direct support of business objectives.

### Summary

- Proven track record of taking projects from inception through to final deployment.
- Draws from a wealth of knowledge and experience obtained from multiple disciplines and applies that to solving business problems.
- Comfortable working in the fast-paced environment and closely-knit teams associated with start-ups.
- Able to work aggressively on multiple projects under pressure and within tight deadlines.
- Adept at understanding current software implementations and then extending them to meet changing business requirements.
- Strong written and verbal communication skills.
- Demonstrated ability to serve as the "go to guy" for both technical questions and resolutions to more abstract business issues.

### Core Competencies

Web 2.0 Development  
Application  
Architecture

Unit Testing  
Web Services

Research &  
Development  
Code generation

### Technical Proficiencies

**Languages:** Java, PHP, C#, XML, XSL, XHTML, JavaScript, Ruby, Delphi (Pascal), C++, C  
**Technologies:** .NET, NHibernate, Spring.NET, Ant, Spring, Hibernate, Wicket, ACEGI, XFire, AJAX, Rails  
**Tools:** Eclipse, Visual Studio.NET, FireBug  
**Databases:** SQL Server, MySQL, PostgreSQL, SQLite  
**Web servers:** Apache 2, IIS 5/6  
**Platforms:** Windows 95/98/ME/XP/NT, 2000, 2003 Server, Linux, Mac OS X

### Work Experience

**Senior Software Engineer**  
*vmSight*

August 2005 – March 2009

Worked with a team to design, develop and maintain a web-based administration front-end for vmSight's flag ship Virtual Machine auditing and reporting product.

- Collaborated closely with a graphic designer to develop a site map and web 2.0 architecture based on new requirements and a previous version of the software created in Java Swing
- Developed a web 2.0 architecture using the Wicket web framework (configured through Spring) that relied heavily on AJAX for form validation, UI updates without post back and user notifications (loading indicators, message dialogs, etc.). Also used CSS for skinning and layout and Javascript for UI logic.

- Worked with back-end developers to expose product functionality via Web services using the XFire framework.
- Wrote data access code for PostgreSQL using PL/pgSQL stored procedures, Hibernate and Spring.
- Created custom code generation and build tasks using Ant and XSL to transform XHTML "wire frames" into Java classes and HTML page templates more easily consumed by Wicket, thereby minimizing the amount of time needed to develop new pages, while simultaneously preserving the ability for the sales team to give an "HTML walk through".
- Used XML to integrate with 3rd party Flash components for display charts and graphs.

### **Lead Software Developer**

*MilesAhead, LLC*

August 2004 – August 2008

Designed and developed SafetyNet, the companies' premiere wireless security product.

- Implemented a distributed architecture for a wireless security service. This required gathering and generation of software requirements, documenting hardware and software specifications and designing a distributed application architecture.
- Researched secure tunneling techniques using different security modules including OpenSSL.
- Developed a website using PHP where the customer can register for the service, download the software, edit their profile and provide feedback to the company.
- Created a client application using C# that forms a secure tunnel between customer's computers and the company servers.
- Used Python to create an Apache 2 custom handler for byte usage tracking and customer authorization.
- Designed a distributed database architecture using MySQL for bandwidth tracking and managing user accounts.
- Developed installation packages using WiX.

### **Lead Software Developer**

*ABOL Software, Inc.*

June 2003 – July 2004

Returned to ABOL Software as a software developer. Was pivotal in full life cycle development of ABOL Software's entire software portfolio.

- Played a key role in company-wide decisions for software architectures, development tools and testing procedures.
- Promoted to lead developer for Webship product, a large online shipping application currently in production. This required a quick, but thorough understanding of the current architecture and then making extensions to match changing business needs.
- Development of the Webship project required knowledge of Java Servlets, Java Applets, Crystal Reports, ActiveX and XML
- Helped design and implement the ABOL Shipping Services, a web service that exposes package shipping and tracking functionality.
- Helped design and implement an IE ActiveX object that allows access to bar code printers and scales through VBScript and JavaScript.
- Created and maintained a multitude of customer websites developed using PHP. Websites included user management, logging, data import/export and email notification features.
- Developed all websites against SQL Server. Created and used DTS packages both through Enterprise Manager and the DTS command line to import/export data from customer systems and flat files.
- Created installation packages using Install Shield.
- Created custom reports backed by SQL Server and Access databases using Crystal Reports. Used the Crystal Reports Server to automatically generate HTML/JavaScript reports for on-line presentation.

- Created a code generation framework using XSL to create Delphi code based off of customer schemas and WSDL for Webservices integration.

### **Lead Software Developer**

*Digital Polyphony, LLC*

October 2002 – Present

Helped launch a software consulting company that specializes in the development of e-commerce websites.

- Gathered requirements for projects and helped manage customer expectations through direct client contact.
- Developed a web framework, making heavy use of code generation, in both PHP/MySQL and ASP.NET/SQL Server to assist with rapid application development and maintenance.
- Designed a presentation layer framework based on XML and XSL.
- Customized previously mentioned frameworks to implement websites for clients based on acquired specifications
- Integrated 3<sup>rd</sup> party functionality including UPS package rating, USPS package rating and PayPal payment services.

### **Web Developer**

T/R Systems, Inc.

August 2001 – October 2002

Participated in the design and development of the Digital StoreFront, an e-commerce web application that enables printing services over the Internet.

- Led the initial design phase by analyzing customer requirements and proposing a three tier, data driven, web architecture based on the Windows DNA methodology.
- Created COM based data access and business logic objects using Visual Basic and Visual C++, which required an intimate knowledge of COM type libraries, and threading models.
- Defined and implemented XML document formats for database schemas, object serialization and business logic.
- Designed, documented and implemented multiple databases in SQL Server.
- Took initiative to create additional development tools to manage data and help speed development and support.
- Worked closely with clients to troubleshoot software and hardware problems and do remote installs of software.

### **Software Developer**

*ABOL Software, Inc.*

May 2000 - June 2001

Returned to ABOL Software as a full-time software developer. Worked within a development team to design and implement custom software solutions for clients.

- Designed, implemented and maintained a web application framework developed in PHP that was used for two different e-commerce websites
- Helped architect an automated Internet tracking system where data from multiple sites is consolidated at ABOL, which acts as a central hub for multiple Postal Consolidators across the country
- Designed and developed three large databases for two websites and one Windows application using MS-SQL Server.
- Used stored procedures, data transformation services and the backup capabilities of SQL Server to manipulate data from multiple sources, execute complex postal routing calculations and ensure data integrity
- Interfaced with bar code printers, bar code scanners and scales
- Creating custom reports and Bills of Lading for several different customers using Crystal Reports and Rave Report Printer Pro.

- Developed and maintained a software library of components in Delphi using OOA/OOD techniques that serve as the foundation of all of ABOL Software's new products.

**Web/Internet Consultant***AECO*

March 2000 - May 2000

Developed a Disaster Recovery system for nationally recognized envelope company. Required the development of two websites: one for customers and a database administration website for AECO employees.

- Gathered user-requirements by holding multiple interactive design sessions with end-users.
- Laid out, designed and developed two websites using PHP by analyzing end-user requirements.
- Developed the architecture for a data-driven web-based application that could be administered remotely.
- Implemented the database in Access which was later migrated to SQL Server using stored procedures.

**Independent Consultant***ABOL Software, Inc.*

January 1998 - March 2000

Served a two year extended contract to enhance the functionality of ABOL Software's award winning ABOL Express products.

- Created DLLs using Delphi to add Delivery Confirmation support to an existing shrink-wrapped application.
- Created an EDI document conversion software library in Delphi that using PGP for data encryption.
- Designed Postal manifests and Bill of Ladings using Crystal Reports.

**Education**

Bachelor of Science in Computer Science, Southern Polytechnic State University: September 1996 - December 2000; Overall GPA 3.63