

ANDREW O. DENNISON
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Software Developer – with extensive skills and experience in both applications and software tools development.

Technologies

Technologies: .NET, WinForms, TCP/IP, Log4Net, Wix, TeamCity, MediaWiki
Testing: MsTest, NUnit, TypeMock, MOQ
Languages: C# (4.5), LINQ, T4, SQL, XML, VB.NET, VBScript, VBA, CMD
O/S Platforms: Windows (3.1-8.1)
Databases: MS SQL Server
Tools: Visual Studio, ReSharper, LINQPad, Beyond Compare, StyleCop, dotPeek. Subversion.

Experience

TERADYNE, North Reading, MA 2013- 2014
Developers of Automated Test Equipment 35 / 3,000 (project / employees)

Software Engineer (Contract)

- Developed Business Layer Components and Unit Tests using a combination of C# and metadata driven T4 code generation. (.NET, C# 4.5, LINQ, T4, TypeMock, MsTest)
- Proposed a design to eliminate the storage of redundant strings.
- Developed tools for validating the T4 metadata, diagnosing T4 compiler issues, and reporting nightly test failures to their respective owners,
- Technologies included: .NET, C# 4.5, LINQ, T4, TypeMock, MS-Test

QUANTERIX CORP, Lexington, MA 2013-2013
Developers of an ultra-sensitive diagnostic platform 4 / 50 (project / employees)

Software Engineer (Contract)

- Developed and ported basic image processing algorithms from MATLAB prototypes.
- Enhanced GUI for image processing application and supporting utilities.
- Designed and implemented User Controls, to increase code reusability and UI consistency.
- Extended a large Experimental Database application: GUI, business logic, and stored procedures.
- Designed and implemented a distributed processing service for parallel data reduction, exploiting idle CPU cycles on multiple desktops.
- Designed and developed an XML driven recursive parser for ~30 syntactic elements.
- Configured TeamCity, establishing continuous integration and a nightly build process.
- Technologies included: .NET, C# 4.5, SQL Server, NUnit, MOQ, Log4Net, TeamCity

VISTAPRINT USA, INC, Lexington, MA 2009-2012
Online retailer of custom business cards and marketing collateral. 3 / 2,000 (project / employees)

Lead Software Engineer

- Designed and developed tools to support rapid deployment to 600+ servers globally. Tools included:
 - Load Balancer Tool - used to automate zero downtime deployments.
 - VistaSync - a copy tool performance optimized for global cross-domain copying of large (600K files) payloads; resulting in a 40X speed improvement.
- Developed and maintained the Fully Automated Deployment System (FADS).
- Included several server components and a WinForms client. (Member of 2 person team).
- Designed and developed core functionality of Extended Deployment Automation (EDA).
- Technologies included: C#, WinForms, TCP/IP, ActiveMQ, SQL Server, NUnit, and Log4Net.

INSIGHT DIRECT, Boston, MA 2007-2008
Developers of a desktop applications for Field Service technicians. 2 / 100 (project / employees)

Senior Software Engineer/VB6 Guru

- Enhanced and maintained the flagship product, 700,000 lines of VB6 code.
- Designed, developed and documented reusable software components.
 - (ActiveX) for managing grids (VsFlex), collections, controls, UI resizing, persisting user preferences, mouse cursor, strings, dynamic SQL, error handling including stack tracing, and logging.
- Provided internal consulting and expertise for: managing DLL binary compatibility (“DLL Hell”), the build process, design patterns, and modern naming conventions. (VB6)

ZANTAZ, Boston, MA 2005-2007
Developers of a document management client-server application. 1 / 100 (project / employees)

Principal Software Engineer

- Primarily, developed numerous development tools. Automated the build and install process, reducing the time required from 2 weeks to 30 minutes, while improving reliability.
 - .NET solution and dependency tree builder, VSS Batch commands, VB6 frx corruption repair tool, Registry cleanup tool, ActiveX Registration utility and a utility for exporting stored procedures from VS 2003 to 2004 SQL DDL scripts. (Nant, VisualBuild).

VISTAPRINT, Lexington, MA 2003-2004
Online retailer of custom business cards and marketing collateral. 2 / 100 (project / employees)

Software Engineer

- Ported 20,000 lines of ASP web infrastructure to .NET for a large-scale commercial web farm.
 - Developed an ASP to VB6 translator, then ported from VB6 to VB.NET.
- Improved performance.
 - Reduced page redirects from 8 to 1; reduced hardware requirements; and decreased page render times.
 - Added metrics to provide demonstrable results.
- Improved software quality.
 - Reduced lines of code by 80%; improved use of common code and type safety.
- In parallel:
 - Developed a rollback option, side by side testing and fast deployment into a high volume production web farm consisting of 16 servers X 10 international sites.
 - Identified and resolved chronic cookie corruption that was blocking 50% of the returning customers from logging into their accounts.

Education

B.A. in Mathematics, Clark University, Worcester, MA