

ANDREW O. DENNISON
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Software Developer – experienced in both applications and software tools development.

Technologies

Languages: C#, LINQ, T4, SQL, XML, VB.NET, PowerShell, VBScript, VBA, CMD
Technologies: .NET, WinForms, TCP/IP, Log4Net, Wix, TeamCity, MediaWiki
Testing: XUnit, NUnit, TypeMock, TFS, MsTest, MOQ
O/S Platforms: Windows (10, 8.1, 8, 7, 2003 ... 3.1)
Databases: MS SQL Server, Firebird
Tools: Visual Studio, ReSharper, git, bitbucket, LINQPad, Beyond Compare, StyleCop

Experience

BARRACUDA NETWORKS (Formerly Intronis), Chelmsford, MA 2015- 2018
Developers of Cloud Backup for MSP's 10 / 1,500 (project / employees)

Software Engineer

- Member of (international) SCRUM team for feature development, maintenance and testing.
- Introduced and trained teams on TypeMock to improve Unit Test coverage.
- Wrote tutorials on: DI, PKI, Security, git, new C# features, WOW, IntPtr and VS Templates.
- Developed Automated Test Framework: from automatic test code generation, deployment and unattended execution across multiple O/S versions to final verification.
- Researched and resolved Firebird performance issues, improving overall backup times by 40%.
- Planned effort to migrate product to 64-bit: analyzed 150 3rd party components for compatibility; devised deployment and installer strategies for upgrades and new installs.
- Resolved significant compatibility issues with Microsoft API (GetVersionInfoEx).
- Improved code sharing: through code reviews, unit-tested common libraries; producing NuGet packages and writing VS templates.
- Analyzed TB's of production logs to understand and resolved data corruption issue.
- Technologies included: .NET, C# 4.5, LINQ, SQL Server TypeMock, XUnit, TFS, PowerShell

GIRLS WHO CODE, Teacher (volunteer) J. Pyne Arts School, Lowell, MA 2016-2017

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 (C# and T4 code generation)
- Developed tools for validating 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.
- 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 computing service for massively parallel data reduction.
- 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
Online retailer of custom business cards and marketing collateral.

2009-2012
3 / 2,000 (project / employees)

Lead Software Engineer

- Designed and developed tools to support rapid deployment to 600+ servers globally. Including:
 - 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).
- Designed and developed several server components and a WinForms client.
- 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
Developers of a desktop applications for Field Service technicians.

2007-2008
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.
- Provided expertise for: managing DLL binary compatibility aka “DLL Hell” (VB6)

ZANTAZ, Boston, MA
Developers of a document management client-server application.

2005-2007
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
Online retailer of custom business cards and marketing collateral.

2003-2004
2 / 100 (project / employees)

Software Engineer

- Identified and resolved chronic cookie corruption that was blocking 50% of return customers.
- Ported 20,000 lines of ASP web infrastructure to VB.NET for a large commercial web farm.
- Developed an ASP to VB6 translator, then ported from VB6 to VB.NET.
- Reduced page redirects from 8 to 1; for better performance with less hardware.
- Reduced lines of code by 80%; improved use of common code and type safety.

Experience with a Variety of Users in Many Domains

- Users - Kurzweil’s Blind Users, Retail kiosk users, courseware developers and students, retail web users, electrical engineers, biologists, physicians, finance, release engineers, software developers.
- Academia – Geography, Economic, Computer Science, Biology, Chemical Engineering
- Corporate – Sears, Coldwell Banker, NCR, UAW/GM, American Airlines, IBM, Merrill Lynch

Education

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