

Technical Summary

- Java, C#, T-SQL, PL/SQL, VB/VBScript/VB.NET, PHP
- XML, XHTML, CSS, JavaScript, ASP.NET
- Apache, IIS, SQL Server, MySQL, Subversion, Microsoft TFS
- Microsoft Visual Studio, JetBrains IntelliJ IDEA, Microsoft Office, Apple iWork, Adobe and Corel graphics Suites
- Critical thinking, problem solving, attention to detail, logic, organization, communication
- Graphic design ranging from print design, website graphics, application graphics and icons
- Usability including GUI design and refinement, user testing, website design, and analysis

Professional Experience

Senior Analyst, Avanade

2010 - Current

Microsoft-centric consultant in application development working at clients' site

Client: Aon Corporation; CSS Specialist

Dec 2011 - Current

- Microsoft SharePoint based Web application stylesheet design, cleanup, and re-architecture
- User experience analysis and improvement
- Wrote tools in C# WinForms to help find orphaned CSS styles and usages

Client: Firemans Fund; Member of Policy Technology team

Aug 2011-Nov 2011

- Validation of functional specs, technical specs, technical design, and implementation
- Implementation and testing of rating algorithms
- Designer and developer of tool to facilitate functional spec validation; Intelligently compares Excel workbooks, highlighting the differences written in C# WinForms using MS Excel .NET interop

Client: Allstate; Member of Client's Claims Technology Services team

Sep 2010 - June 2011

- Responsible for design, implementation, testing, and debugging of features that are part of a large enterprise application. Written in VB.NET against proprietary framework backed by .NET, ASP.NET, IIS, PL/SQL, Oracle
- Led design discussions while working with vendors to implement complex integration via web services around electronic subrogation
- Work with the business to establish technical implementation details ensuring all business needs are met by technology solutions around their existing business processes
- Track and resolve defects, working with multiple teams to identify root cause and develop solutions
- Work in small to medium sized teams on multiple concurrent release phases
- Led creation and maintenance of team Wiki to document internal development processes

Senior Counselor, Camp Fitch Computer Camp (two to three weeks every summer)

2000 - Current

- Taught Java, VB, Flash, C++, JavaScript, and Applications to campers between the age of 9 and 17
- Worked with other counselors on web design, networking, and camper instruction/projects
- Planning, curriculum, and organization

Software Developer, NuGrowth Technologies

2007 - 2009

Worked as consultant at consulting company, generally working at consulting company's location

Client: RivetDigital; Responsible for architecture, design, implementation, testing, debugging, and documentation

- Led digital sign software management system including disk image diffing, software versioning, asset tracking, and direct and update provisioning; Written in C# using WinForms and SQL against MS SQLServer
- Led disk partitioning and provisioning project; Written in C# using WinForms, interfacing with ASP.NET
- Led content creation wizard project to produce content to be deployed on digital signs and kiosks; Written in C# using WinForms.
- Worked in a group on tech demo for barcode scanning and printing on digital signs and kiosks; Written in C# and integrated with Adobe Flash content written in ActionScript
- Worked in a group on presentation software running on digital signs including networking, concurrency, media playback, logging, interfacing with Adobe Flash content, and software, content, and re-provisioning update mechanisms; Written in C# for Windows XP Embedded
- Worked in a group on digital sign management and reporting systems including pluggable log import service; Written in ASP.NET, C#; deployed on IIS and MS SQLServer
- Worked directly with client and client's clients on integrating content for use on digital signs and kiosks; Content written in Adobe Flash and ActionScript; Represented our client on conference calls
- Worked directly with client to debug hardware and software issues including memory leak, touch screen calibration persistence across re-provisioning, and remote administration over cell data connection

Software Developer, NuGrowth Technologies (continued)

Client: TransChart; Responsible for design, implementation, testing, and debugging

- Worked in group on Transplant Electronic Medical Record software (TransChart); Written in ASP Classic (VBScript), XHTML, CSS, JavaScript, and SQL against IIS and MS SQLServer
- Integrated dynamic charting using ChartFX
- Designed, built, and tested complex reports and customized features for client's customers
- Led WYSIWYG data-driven hierarchal template editor for patient communications including C# WinForms application to upload templates to database
- Led customization of dotProject Ticket system customization to integrate with our workflow; Written in PHP
- Worked in a group and with client's customers on data analysis using SQL and MS SQLServer Management Studio
- Worked in a group on HL7 adaptor service for Windows; Written in C#
- Worked directly with client and represented client in conference calls with client's customers

Client: AirChef; Responsible for implementation, testing, and debugging

- Worked in group on private jet catering system; Written in ASP.NET, C#, and SQL against MS SQLServer; Integrated with MS Dynamics GP

Client: Roof Management; Responsible for implementation, testing, and debugging

- Worked in group on facility management application; Written in ASP.NET, C#, and SQL against MS SQLServer
- Led developer on in-field photo upload tool; Written in C# using WinForms against MS SQLServer

Client: Emergitech; Responsible for design, implementation, testing, and debugging

- Led UI design and prototyping of 911 call center software; Written in C# using WPF

Internal: NuGrowth Technologies; Responsible for design, implementation, testing, debugging, and documentation

- Led sophisticated custom installation application project for NuGrowth Technologies' own application; Written in C# using WinForms
 - Deployment of SQLServer Express
 - Integrated key validation and key-based component enablement
- Led creation and maintenance of internal Wiki for internal communication and documentation

Freelance Developer, University of Dayton**2003 - 2004**

- Created data-driven, web-based, flexible, easy to use, and aesthetically pleasing survey system
- Was sole system and graphic designer and implementer and Led testing group
- Written in PHP and SQL against MySQL

Personal Projects**LanCaster** Java SE 1.6**Current**

- Peer-to-Peer package (file/files) distribution application for local networks designed to easily find and obtain packages hosted on the local network while streamlining simultaneous transmission to multiple clients
- Concentration on usability
 - Extremely responsive
 - Minimalist, easy to use UI that presents only relevant information required to use the application's core functionality
 - Designed to look like and feel like a native application on Windows or MacOS X based on the host OS
 - Unattended 'push' distribution using a subscription based model
 - Dual-level permission system minimizing password reentry while maximizing flexibility
- Concentration on computational efficiency
 - Pervasive use of multithreading and listener pattern instead of polling or manual refreshes
 - Minimally serialized network messages such as package information containing directory structures and hash trees
 - Package data is sent as it is simultaneously hashed, potentially halving the time-to-completion of the first transmission
 - When multiple clients desire the same package, intermediate clients will simultaneously receive, hash, and retransmit incoming package data leading to a best-case transmission time where n peers receive the package in the same time it would take one peer to receive it
 - Planned support for automatic reorganization of the package retransmission chain to minimize average time-to-completion by identifying and routing around bottlenecks such as slow disk access, slow network connectivity, network topology bottlenecks, etc
- Reusable class library
 - Implementation of List and Queue supporting notification of changes (similar to Glazed Lists) and accompanying Swing list box that mirrors changes in said lists.
 - Flexible background task handler allowing tasks to be paused, queried for completion, automatically scheduled based on priority, listened on for changes, and grouped to provide composite tasks. Two implementations: one where tasks are threads allowing for more complicated computations, and another where tasks can be worked on iteratively
 - Mapper which provides automatic n-way key/value pairs.
 - CondensedBitArray which stores numeric ranges resulting in much lower memory usage over traditional, relatively sparse, bit arrays with a negligible hit in lookup times.
 - Service and Peer framework allowing for easy implementation of P2P applications
 - Many reusable GUI elements including sophisticated list box, perpetual spinner and pie progress combo indicator, automatically and dynamically positioned callout bubble pointing in an arbitrary direction

GoogleAdwordsBadger Java SE 1.5, XUL, JavaScript**2006**

- Firefox plugin that places a badge on search results indicating the likely cost-per-click for sponsored links
- Uses Google AdWords API; Abandoned due to new policy of charging for API access

iTunes Librarian VB.NET WinForms**2006**

- Interfaces with Amazon web services to load album art
- Locates tracks with missing files

PList Editor VB.NET WinForms**2006**

- Apple PList XML file editor
- Mirrors look and feel of Windows Registry editor