JOEL SELF

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RELATED SKILLS

- C/C++
- C#
- Perl

- Java
- JavaScript
- Ruby

- ASP.NET
- HTML
- jQuery

- SWIG
- Boost
- SQL

- .NET
- Linux
- Windows

TOOLS EXPERIENCE

- Emacs
- Visual Studio

- Eclipse
- Git

- Subversion
- GDB

- BASH
- MVC

- LINQ
- PostgreSQL

WORK EXPERIENCE

Senior Software Engineer, *FinFolio*   July 2015 — November 2015

- Found and fixed bugs in the FinFolio client software with C#, .Net, SQL, and Visual Studio
- Implemented new check box selection feature in the Finfolio client with C#, .Net, and XAML
- Created, maintained and owned the REST-based WebAPI for FinFolio webservices

Senior Developer (.Net), *TwentyEighty*   September 2014 — July 2015

- Wrote a Windows service in C# to clean up a key server and keep it in working order.
- Designed and implemented REST web services in .NET for the corporate intranet.
- Wrote web controls in ASP.NET, JavaScript and jQuery to consume online web services in order to display customized content to website visitors.
- Built a website for application inventory management from the ground up using C#, MVC, and LINQ.

Software Engineer, *zVelo Inc.*   March 2011 — August 2014

- Added comprehensive statistics tracking package to a multi-threaded client SDK that would run with tens of thousands of threads concurrently using C, C++, the STL, Boost and the Eclipse IDE.
- Wrote server back-end Perl scripts to receive and process large volumes of client SDK data and insert data into a large PostgreSQL database in the correct format for analysis.
- Designed and implemented web URL grouping/hierarchy tool in C++ to run several orders of magnitude faster than the previous tool.
- Debugged and fixed customer issues on a real-time basis using tools such as GDB, Valgrind, and Eclipse CDT.

Software Design Engineer, *Microsoft Corporation*   September 2006 — February 2011

- Design, development, and maintenance of several SharePoint Server features in both SharePoint Foundation with C++ and in SharePoint with C#, ASP.NET, JavaScript, and HTML.
- Designed and coded in managed C# and unmanaged C++ client code and server code as well as features that work between the client, including Word, Excel, PowerPoint, SharePoint Designer, and OneNote and the SharePoint Server.
- Collaborated seamlessly on 10 features at once with around 6-7 teams including several Testers and PMs all with different personalities and expectations.
- Specific product development experience: Word, Excel, PowerPoint, SharePoint, and SharePoint Foundation.

Software Development Intern, *ExxonMobil*   May 2005 — August 2005
- Added simplified workflows to ExxonMobil's premiere reservoir simulator, including a wizard using Visual Studio and C++.
- Improved ease of use and training needed to use the simulator resulting in a reduction of time to create a simple reservoir model from 1—2 days to 30 minutes.

Research Assistant, *Brigham Young University*   April 2004 — August 2006
- Designed and coded tools for the verification of interrupt driven software using Emacs, C++, M68HC11 assembly language.
- Researched and implemented ways of speeding up the verification tool by 30x by integrating a custom built library compiled from GDB source code.
- Created and modified C and assembly language programs to run on embedded systems to verify on the tool in order to produce data for my thesis and workshop publication.

EDUCATION

MS in Computer Science, *Brigham Young University*   April 2007
- Thesis: "On-the-fly Dynamic Dead Variable Analysis"
- Publication: J. Self and E. G. Mercer. "On-the-fly Dynamic Dead Variable Analysis," *SPIN Workshop on Model Checking of Software*, Berlin, Germany, pages 113 — 130, July 2007.

BS in Computer Science, *Brigham Young University*   April 2005

PERSONAL PROJECTS

Google Cache Browser   https://github.com/joelself/GoogleCacheBrowser
- Google Cache Browser: A Chrome browser extension that lets you seamlessly browse the google cache as if you were browsing the real websites.
- Turns on and off per tab instead of browser wide.
- Has an unobtrusive mode that prompts you to turn on cached browsing for only a page, host or domain when you receive a 404 or 503 response.

FannCSharp   https://github.com/joelself/FannCSharp
- A work-in-progress wrapper around the FANN (Fast Artificial Neural Network) library that lets you use FANN from C#.

VOLUNTEER EXPERIENCE

Full-time Volunteer, *Region II, Philippines*   August 2000 — July 2002
- Managed and trained five other full-time volunteers while managing my own area at the same time.
- Work included community and humanitarian service.