**Joel Self**

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joelself@gmail.com­

**Related Skills**

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| * C/C++ * C# * Perl | * Java * JavaScript * Ruby | * ASP.NET * HTML * jQuery | * SWIG * Boost * SQL | * .NET * Linux * Windows |

**Tools Experience**

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| * Emacs * Visual Studio | * Eclipse * Git | * Subversion * GDB | * BASH * MVC | * LINQ * PostgreSQL |

**Work Experience**

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| **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

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| **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.

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| **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.

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| **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.

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| **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.

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| **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**

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| **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](https://facwiki.cs.byu.edu/vv-lab/index.php/On-the-fly_Dynamic_Dead_Variable_Analysis)," *SPIN Workshop on Model Checking of Software*, Berlin, Germany, pages 113 ­— 130, July 2007.

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

**Personal Projects**

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| **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.

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| **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**

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| **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.