

Chad K. Bibler

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Objective

Seeking a challenging and exciting software engineering career.

Portfolio

Check out my portfolio at <http://portfolio.dregsoft.com>

Professional Experience

Developer, Team Cymru, Inc.

Burr Ridge, IL

1/2010 - Current

- Created the world's first HTML5 powered, no file upload, no add-on download, virus scanner. [<https://hammhr.team-cymru.org>]
- Team Lead in creating our first Development Process.
- Developed multiple Python-backed internal webapps.
- Designed, implemented, and shipped Windows virus detector using C++ and Qt. [<http://winmhr.com>]
- Developed Firefox Add-on for checking downloaded files for malware. [<https://addons.mozilla.org/US/firefox/addon/98431/>]
- Developed OS X Dashboard widget for checking files for malware. [<http://www.team-cymru.org/Services/MHR/Widget/>]
- Current project will process streaming gigabytes of network data in real time.
- Technologies used: Qt4, HTML5, CSS3, Python 2.6, JavaScript, jQuery, AJAX, JSON, C++, Perl

Lead Developer, WizBang

9/2008 - Current

- Developed a visual programming language that compiles to valid C, C++, Java, and Python 2.4 code.
- Open-source C++/Qt 4 project for Linux, Windows, and Mac OS X for teaching procedural programming concepts to all ages.
- Built installers for Linux, Windows, and Mac OS X.
- Deployment and social marketing netted over 3,000 downloads in 48 hours.
- <http://wizbang.sourceforge.net>

Software Engineering Intern, John Deere Electronic Engine Controls

Waterloo, IA

5/2009 - 8/2009, 5/2008 - 8/2008

- Gathered requirements and implemented an electronic engine controller multi-calibration tool using Qt and Visual C++ 8.0. The tool is used on John Deere assembly lines in four countries.
- Added code to a legacy MFC project to launch this tool.
- Implemented a proprietary data codec's software requirements for use by the calibration tool and other software systems within John Deere.
- Used Qt's XML parsing system and QFile, QTextStream to store and load user preferences.

Co-op Student Engineer, John Deere Electronic Engine Controls

Waterloo, IA

8/2007 - 12/2007

- Transformed unstable project with incomplete requirements into functioning application in four months (~10 KLOC++).
- Built user interface using QtDesigner to keep GUI code separate from logic implementation.

- Custom drag and drop operations using QDragEvent, QDropEvent, and QMime-Data for copying structures in the tree dramatically reduced redundant effort.
- Subclassed QDialog and used QTabWidget to create a tabbed user interface.
- Utilized QProcess to run dependent utility executables, keep the GUI responsive, and indicate progress to the user.
- Employed the QFileSystemWatcher to dynamically inform user if a file on disk had been modified.
- Incorporated the zlib library for compressing and zipping data rather than depending on an unreliable WinZip binary.
- Built graphical installers for Windows for five projects using InnoSetup 5.

Student Engineer, John Deere Electronic Engine Controls

Waterloo, IA

6/2006 - 8/2007

- Became thoroughly familiar with Nokia's Qt versions 3 and 4 for C++.
- Utilized Qt's Signal and Slot mechanism for communication between objects and to decrease class coupling and increase cohesion.
- Created C++ wrappers using Qt for MATLAB xPC Target API and ETAS' ES4440 Compact Failure Simulation Module.
- Developed desktop application (~15 KLOC++) using subclasses of QMainWindow and QDockWidget.

Student Programmer, University of Northern Iowa

Cedar Falls, IA

11/2005 - 6/2006

- Application and database development and maintenance.
- Languages used include: Perl, VBA, PHP, MySQL.

Education

Iowa State University, Ames, IA

Spring 2008 - Spring 2009

University of Northern Iowa, Cedar Falls, IA

Fall 2004 - Spring 2007

Recognition

- Accepted into the Nokia Qt Ambassador Program in February 2011.
- Made the front page of Proggit and HN.
- Earned Cisco Certified Network Associate (CCNA) in 2004.

Social

- StackOverflow - <http://stackoverflow.com/users/203724/c-bibler>
- SourceForge - <https://sourceforge.net/users/cbibler>
- GitHub - <https://github.com/chadkeck>
- Twitter - <http://twitter.com/chadkeck>
- Blog - <http://cbibler.blogspot.com>