Chad K. Bibler

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Objective   Seeking a challenging and exciting software engineering career.

GitHub   https://github.com/chadkeck

Portfolio   http://chadbibler.com

Professional Experience

JavaScript Engineer, Picturelife, Inc.
Chicago, IL   1/2013 - 7/2013
- Designed and implemented a new and high-performance infinite scroll.
- Improved the scrolling framerate from around 10 frames per second with intermittent lockups to 60 frames per second.
- Technologies used: JavaScript, HTML LocalStorage, Web workers, Canvas, requestAnimationFrame, CSS3 Transitions, LESS, Grunt, Mocha and Should (for JavaScript BDD), Ruby

Senior Software Engineer, Enova Financial
Chicago, IL   7/2012 - 1/2013
- Designed and implemented a more efficient loan application process used by multiple brands.
- Fixed a JavaScript error that was in production for 3 months which lost the company around $1M.
- Piloted releases of the web app to thousands of customers around the world.
- Technologies used: Ruby on Rails 1.2, Capistrano, GitHub

Software Engineer, PEAK6 Investments, Inc.
Chicago, IL   9/2011 - 7/2012
- Tailored custom interfaces for an elite group of options traders.
- Replaced an expensive external tool with an internal app.
- Technologies used: WebSockets, HTML5, High performance JavaScript, CoffeeScript, jQuery, jQuery UI, Ruby on Rails, Capistrano, Git, SASS

UI/UX Developer, eCD Market, Inc.
Chicago, IL   7/2011 - 9/2011
- Eliminated intermittent Selenium browser testing failures, saving each developer and QA hours a week.
- Increased compatibility, speed, and consistency of app by large refactoring.
- Decreased code base size almost every day.
- Created the first UI guidelines for future development.
- Technologies used: jQuery, require.js, jQuery UI, jQuery Widget Factory, HTML, CSS, JavaScript, Erlang, REST, JSON, Selenium

Developer, Team Cymru, Inc.
Burr Ridge, IL   1/2010 - 7/2011
- Designed, implemented, and shipped Windows virus detector using C++ and Qt. [http://winmhr.com]

- 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.
- 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/]
- 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 ($\sim$10 KLOC++).
- Built user interface using QtDesigner to keep GUI code separate from logic implementation.
- Custom drag and drop operations using QDragEvent, QDropEvent, and QMimeData 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.

Online Presense
- Email - chadkeck@gmail.com
- Blog - http://blog.dregsoft.com
- Twitter - http://twitter.com/chadkeck
- GitHub - https://github.com/chadkeck
- SourceForge - https://sourceforge.net/users/cbibler
- StackOverflow - http://stackoverflow.com/users/203724/c-bibler