

Derek A. Severson

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Versatile, experienced Software Engineer in the healthcare industry developing applications and frameworks in the web, mobile, and desktop environments.

Accuray Inc. Software Engineer

April 2013 – Current

Responsibilities –

- Product development of the data management systems and applications that provide reliable and secure access to data used in treatment planning, quality assurance, patient set-up, and treatment delivery for both the CyberKnife® System and TomoTherapy® Systems.

Accomplishments –

- Implemented usability enhancements and new features in our Suite of Data Management Applications.
- Redesigned our internal, centralized licensing system used to enable features/packages our clients purchase.
- Head of the continuous integration and installer build process.
- Manage our interactive PowerShell Dev environment
- Administer the physical machines and virtual images used for testing and development.
- Update requirements, software design documents, and user test-case documentation.
- Work and communicate effectively within a geographically dispersed team.

Technologies Used –

Thick-Client (Desktop Apps): C#.NET 4.5, WinForms, WPF, LINQ, XML
Thin-Client (Web Apps): JavaScript, HTML5, CSS, LESS, jQuery, Kendo UI, Bootstrap UI
Environment: Windows, Visual Studio, MSBuild, PowerShell
Dev Tools: Perforce, Chrome DevTools, Jenkins, Advanced Installer,
Other Tools: Rational DOORS, VMware Server, Microsoft Office Suite

Engineering Professional Development Department, UW Madison Web Developer & IT Specialist

August 2009 – Feb 2013

Responsibilities –

- The development and deployment of custom internal web apps to automate and assist with staffs' daily workflow and external websites promoting our department's offered programs.
- Assess, assist, troubleshoot, and resolve any technical issues for staff and faculty.
- Run updates, install programs, perform upgrades, create backups, and restore data on all staff and faculty workstations, laptops, tablets, and mobile devices.

Accomplishments –

- Designed, coded, tested, and deployed the department's mobile website used primarily for prospective and current students to learn about and enroll into current classes or classes offered in the near future.
- Improved faculty and staff workflow by creating custom internal web applications that:
 - Automate the manual data entry process of "course enrollment" data into usable Excel spreadsheets.
 - Track the technical equipment our department lends to students and faculty.
 - Enable staff to work concurrently during our "course quality evaluation" process done each semester.

Technologies Used –

Languages & Technologies: PHP, HTML, CSS, JavaScript, AJAX, SQL
Frameworks & Libraries: jQuery, jQuery Mobile, FileMaker Web API
Environment: Mac OS X, TextWrangler, FileMaker Pro, MAMP
Dev Tools: Chrome DevTools, CSSEdit, Adobe Fireworks

Thomson Reuters Beta Systems Software Development Intern

Summer of 2012

Responsibilities –

- Contribute to the Core Trading team in designing, architecting, and developing new features for our real-time trading platform.
- Maintain the real-time service platform supporting over 25 large banks and brokerage institutions. The platform interfaces with all major US stock exchanges and processes over a million transactions a day and averages 1 billion dollars traded daily.

Accomplishments –

- Developed the mobile application that interfaces with our platform in order to monitor the status of our connections providing real-time updates and assisting in maintaining zero downtime.
- Wrote several automation scripts to increase the team's efficiency of completing common tasks.

Technologies Used –

Languages & Technologies:	C, Java, HTML, CSS, JavaScript, AJAX, XML, Regex
Frameworks & Libraries:	jQuery, jQuery Mobile, Java Struts Web Framework
Environment:	Windows, Linux/Unix, KornShell, Vim, Eclipse
Dev Tools:	Chrome DevTools, KornShell Scripts, Subversion

University of Wisconsin-Madison

Bachelors of Science **Computer Engineering and Computer Sciences**

December 2012

Financial Data Visualization App

<i>Technologies Used:</i>	C#.NET, Microsoft SQL Server, JavaScript, Windows 8, Visual Studio 2012
<i>Summary:</i>	User-interactive charting functionality extending HighCharts JavaScript library seamlessly into a Windows 8 App serving up budget data with dive-down capabilities.

Multi-Tenancy Benchmarking – LevelDB vs. SQLite3

<i>Technologies Used:</i>	LevelDB, SQLite3, C++, Unix Terminal
<i>Summary:</i>	Investigated, compared, and presented the performance trends and limitations of LevelDB & SQLite3 local data-stores in a high multi-tenancy environment.

Geo-Advertising iPad App

<i>Technologies Used:</i>	HTML5, JavaScript, PhoneGap, XCode, Python, Django Web Framework
<i>Summary:</i>	Geo-location advertisement platform and application creating additional revenue for Madison Green Cab by publicizing geo-relevant ads from local companies and tracking user views and interactions with ads.

Scheduled Texting App

<i>Technologies Used:</i>	Objective C, XCode, MySQL
<i>Summary:</i>	iPhone app enabling users to specify a future date and time to send a text message.

Community

Eagle Scout Award – Boy Scouts of America

Engineering Career Academy – Taught and assisted 9th graders attending Engineering Career Academy how to use SolidWorks (3D CAD app) to create a 3D model of a park bench which was materialized via a 3D printer.

Camp Badger – Taught 7th graders attending Camp Badger how to use Google Sketch-up and West Point Bridge Builder as a creative engineering outlet demonstrating how computers assist engineers.