

# DAVID HOGUE

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## SUMMARY

I'm a passionate software developer looking for new and interesting projects where I can have a lasting impact. I enjoy working with a team that I can share new ideas with and learn from. However I am also able to work independently and currently work remotely.

I have served as the technical lead of a team building the Pixelsilk CMS since its inception. I'd consider myself an expert with modern web technologies on both the server and browser and the protocols to communicate between the two. I've also gained some specialist skills for troubleshooting performance and debugging hard to reproduce issues in production.

## Strengths and Skills

- Thorough knowledge of common server stacks, protocols and current browser technology
- Strong organizational and technical leadership skills gained through my current role on a very large project
- I have pushed strongly and consistently for modern techniques, tools and processes such as unit testing, design patterns and agile processes in my current position
- I believe in keeping code clean, modular and testable to enable unexpected changes or new features in the future. Code that follows the principle of separation of concerns saves time and prevents ugly hacks later on
- I enjoy making user interfaces welcoming and easy to use through UI consistency and dependable backends

## EXPERIENCE

### Software Engineer, Pixelsilk

Bend, Oregon — 2006-current

Technical lead of the development team, consisting of 4 to 8 developers over time, that wrote the replacement to the in house CMS used by Smart Solutions. The new CMS, Pixelsilk, was spun out into a separate company. I currently have the role of architect and am responsible for organizing QA as well as deploying regular updates to production servers.

## Accomplishments

- Involved in every step of development, from initial requirements specification, architecture, implementation, up through QA, deployment and currently releasing additional features with regular bug fixes
- Learned many lessons about how to coordinate a team with varying development experience and tight time constraints
- The team followed agile processes for the development of core functionality
- Currently responsible for coordinating QA team, merging changes to QA branch, and managing the bug tracking system
- Update 30+ production servers bi-weekly using custom PowerShell scripts with no interruption in user service
- Added thousands of unit tests which have caught many small bugs before costing QA time
- Introduced new tools that have been adopted by the team including NHibernate, jQuery, Memcached, NUnit and dotTrace
- Created the system's admin interface as a single page app using JavaScript and a JSON REST API
- Lead design of a versionable table schema in SQL Server, enabling previous edits to be recovered or audited
- Setup and maintained a continuous integration server using CruiseControl.net
- Assisted in overseeing work contracted out for features and Selenium tests which I then continued development on
- On call for alerts from server monitors Pingdom, Nagios, and a custom dashboard application
- Improved server side performance repeatedly using profilers, memcached, database indexes and code changes
- Optimized browser and CDN caching via HTTP headers, unique URLs, combining files, JS minification and CSS sprites
- Created backend database utility for applying update scripts to hundreds of individual site databases
- Successfully transitioned to working remotely over a year ago

## Software Engineer, Smart Solutions

Bend, Oregon — 2004-current

Implemented new features and fixed bugs in custom software for clients as well as the company's in house content management system and e-commerce backends.

### Projects

- In house Content Management System
  - Maintained sites, servers, fixed bugs in the CMS
  - The CMS has since been replaced with Pixelsilk
  - Technology: SQL, VB.net, NLB Clustering, JS, CSS, HTML
- Multiple online stores powered by BVCommerce
  - Developed custom features and fixed bugs
  - Assisted creation of a Plugin to share content with Pixelsilk
  - Fixed performance and memory usage issues
  - Technology: SQL Server, VB.net, IIS, Windows Server
- Point of Sale system for hardware stores
  - Implemented large pieces of PoS functionality to detailed specifications and mockups
  - Implemented inventory scanner interface, signature input, and portions of checkout screen UI
  - Technology: Firebird DB, C#, Windows Forms, and native hardware APIs

### Additional Accomplishments

- Participated in many other projects from requirements through deployment
- Phased out Source Safe by moving all in house projects to Subversion
- Introduced unit testing and continuous integration into many projects
- Fixed security holes such as SQL injections, XSS, and improperly hashed data as well as taught others how to do the same
- Installed and maintained company wiki and current bug tracker

## EDUCATION

### Mountain View High School

1996-2001

Self taught programmer initially with C. Made a 3D simulator for physics using OpenGL. Experimented with pathfinding on Macs. Wrote a pong clone in C and ARM Assembly for the Game Boy Advance. Reverse engineered the USB protocol for a Toshiba camera and contributed a driver to gPhoto.

## ADDITIONAL EXPERIENCE

- Occasional blogger using WordPress. I maintain my own theme and plugin in PHP. Runs in Apache on a Debian Linux virtual server
- Currently experimenting with a web app on Node.js backed by CouchDB and MongoDB in a Bootstrap and KnockoutJS UI
- Some experience setting up Android projects for phones and tablets in Eclipse and debugging via ADB

## TECHNOLOGIES AND LANGUAGES

- **.NET:** C#, VB.net, ASP.NET Web Forms & MVC, Windows Forms, LINQ, NHibernate, NUnit, SQL Server, IIS, WinDbg
- **Web:** JavaScript, HTML, CSS, HTTP, jQuery, Bootstrap, KnockoutJS
- **Database:** T-SQL, MySQL, SQLite, Firebird, Oracle
- **Other:** Java, Memcached, Node, Python, C, PHP, IIS, HAProxy, Git, Subversion
- **Personal projects:** Node, CouchDB, MongoDB

## REFERENCES

Available upon request