

# Robert Riley

## Senior Software Engineer

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### Skills

#### Languages

C#, C, PHP, Javascript, SQL, HTML, CSS

#### Development Types

Web Apps, Windows Apps, Embedded Systems

#### Operating Systems

Linux, Windows, pSOS+

#### Miscellaneous

ASP.NET, AJAX, design patterns, Git, jQuery, MySQL, REST, SNMP, SQL Server, Windows Forms, Wireshark

### Professional Experience

2015 – 2022

#### Co-Founder / CTO

*Snap Creek Software*

- Responsible for development of *Duplicator* and *Duplicator Pro* backup and migration plugins. (*Duplicator* is one of the top plugins for WordPress with over 30 million downloads) - PHP/MySQL/JavaScript/HTML.
- Hired, and managed team of developers to continue maintenance and development of both *Duplicator* and *Duplicator Pro*.
- Solved non-trivial technical challenges such as chunking transfers and data archiving across multiple web requests.
- Designed and implemented custom archive format which allowed storage of archives up to 150GB+ which wasn't possible with default zip library included in PHP.
- Performed many technical and non-technical tasks associated with starting and growing a small business.

2012 – 2014

#### Senior Software Engineer

*Paychex*

- Developed time tracking software for clocks running Compact .NET framework.
- Developed time-off accrual component of time and attendance software in C# / ASP.NET.

2008 – 2012

#### Senior Software Engineer

*Lumension*

- Developed and maintained module installation system for Lumension's security suite
  - Developed XML-based module installation scripting processor and language spec. Performed system operations such as registry manipulation and app level functionality like text/XML editing. Component also handled 'rollback' to ensure system state was preserved if a failure occurred.
  - Maintained/enhanced Silverlight front-end controller and Windows service that drove the install script processing component.
- Enhanced open-source vulnerability assessment tool
  - Official engine responsible for executing security tests created by NIST.
  - Lumension's representative to the standards-based 'OVAL Language' community.
  - Kept Lumension version of the product in sync with community code line.
- Enhanced patch server reporting and control software running on ASP.NET.

2006 – 2007

**Software Contractor**

*Wells Fargo*

- Developed computer management system built from scratch.
  - Remotely monitored several hundred computers across the country.
  - Tracked machine heartbeats, collected performance counter / registry key information and determined package installation status.
  - Configured via roles, configuration groups and Active Directory synchronization.
  - System composed of management web site, a web service, a Windows service running on 2003 Server, a Windows service (agent) running on each workstation.

2005 – 2006

**Software Contractor**

*Direct Alliance*

- Served as Lead of Offshore Team for 800 KLOC Direct Channel Sales ERP System. Designed and developed implementation patterns for the system and instructed offshore development team how to refactor existing system to implement patterns.
- Developed design documents based on business analyst use cases and activity diagrams. Documents contained textual descriptions as well as UML diagrams detailing design and were utilized by offshore development team when implementing new system functionality.

2004 – 2005

**Software Contractor**

*Intel*

- Developed GUI client for automation system – interacted with server to control and configure test jobs running on PCs running tests on XScale evaluation boards.
- Developed utility that parses XScale specification files and converts them into a XML-based format.

2000 – 2004

**Senior Software Engineer**

*Motorola*

- Developed app management and checkpoint software. Components were developed in C and utilized Linux API calls and a robust TCP/IP based messaging system.
- Developed two MIBs and network management extensions to SNMP agent (NET-SNMP) running under Linux. Used to manage a rack of single board computers.
- Extended Java SNMP agent responsible for process-monitoring and packet statistics.
- Developed database update Windows Service for emergency radio system.

1999 – 2000

**Software Engineer**

*Grid Data*

- Developed message handling software residing in wireless vehicle tracking device (C).
- Developed MFC application used to control wireless tracking device via RS-232.
- Developed vehicle plotting application in Visual Basic.

1997 – 1999

**Software Engineer**

*Motorola*

- Developed communications controller in wireless military computer network.
- Developed board support package / device drivers for the 68360 processor.
- Integrated military link-level protocols/drivers with TCP/IP stack in pSOS+.

**Education**

1996

**Bachelor of Science - Electrical Engineering**

*University of Illinois at Urbana-Champaign*

Focus on embedded systems