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## Experience

Senior Software Engineer, Mozilla July 2011 – Current

- ◇ Technical steward of the Firefox build system; spearheaded transition from legacy tools and mechanisms that helped increase developer and automation efficiency
- ◇ Lead implementor of Firefox Health Report for Firefox desktop
- ◇ Significant contributions to Firefox Sync; required understanding of browser internals, distributed systems, and cryptography
- ◇ Advocated for and developed numerous tools, mostly to aid with developer productivity
- ◇ Performed most work in the public domain
- ◇ Developed skills for working in a highly-distributed work force and team

Engineer, Xobni July 2010 - May 2011

- ◇ Primary engineer for Xobni Cloud contact and email management service
- ◇ Lead transition of operational monitoring and system management from “wild west” by utilizing Puppet and Opsview/Nagios

Software Development Engineer, Tellme Networks / Microsoft 2007 – June 2010

- ◇ Built, deployed, and maintained numerous web services and servers receiving millions to billions of queries per year while operating near 99.99% availability
- ◇ Learned and utilized practices for deploying large scale, distributed, and redundant services
- ◇ Wrote applications for aggregating and monitoring geo-distributed events for near real-time alerting and statistical analysis
- ◇ Developed enhancements to system used to provision thousands of servers
- ◇ Evangelized and deployed better tools for engineers (source code systems, code review practices, auditing practices, internal tools)
- ◇ Became go-to person for questions on Apache httpd, compiling packages, mod\_perl, others

## Education

Case Western Reserve University B.S.E. in Computer Engineering 2002 – 2006

## **Skills**

### *Programming Languages*

|                    |   |
|--------------------|---|
| Highest Competency | C, C++, C#, ECMAScript, Perl <sup>1</sup> , Python, Make, Firefox extensibility |
| Intermediate       | SQL, Lua (C and script), PHP  |
| Hobby level        | Verilog, Java, D (DTrace), Erlang   |

### *Applications*

Apache httpd (inc. C module development), APR, BASH, Cassandra, Collectd, DTrace, GDB, GCC, Git, Mercurial (including extension development), MySQL, \*NIX shell, OpenSSH, Opsview/Nagios, PostgreSQL, Puppet, Visual Studio, ZFS, 0MQ

### *Protocols*

HTTP, TCP/IP, UDP, DNS, SIP, TLS

### *Misc*

network load balancing techniques, distributed application development and deployment, scalable application design, passion for user experience, cryptography applicability and techniques, version control systems

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<sup>1</sup> I'm skeptical of anyone who lists his or her Perl skills as "expert" and I'm not asserting my Perl skills are at this unachievable level