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Professional Experience

Software Development Engineer 2 at **Microsoft** April 2014 to present
Redmond, WA

- Developed extensibility API for Visual Studio Online compliance management tool
- Used Typescript and Javascript to develop reusable UI components for Visual Studio Online compliance management
- Used Azure DocumentDB NoSQL data store to store business objects and state for background jobs
- Simplified and reorganized Operational Intelligence dashboards using D3 for charts
- Added support for multiple data-centers and scale-units to Operational Intelligence dashboards
- Set up Visual Studio Release Management to reduce operational workload and enable “self-serve” deployments
- Wrote map/reduce jobs using the COSMOS framework to compute site-wide historical metrics for Visual Studio Online
- Gained experience with Microsoft SQL Server 2012/2014 data warehouse and analysis tools
- Gained experience with C#, ASP.Net MVC, Javascript and Typescript

Freelance Software Developer for **HelloMakana.com** April 2013 to August 2013
Seattle, WA

- Designed and implemented coupon functionality for independent e-commerce retailer
- Modified Stripe based payment system to accept discounts
- Used South to perform database migrations
- Gained experience with Django web framework

Software Development Engineer at **Amazon.com** August 2012 to January 2014
Seattle, WA

- Identified slow pages or components and implemented performance optimizations
- Updated compiler to GCC 4.7, resulting in site-wide performance improvements
- Wrote build system to enable profile-guided optimization
- Gained experience with Mason templates, Perl programming and C++
- Delivered code using the Scrum software development methodology

Senior Software Developer at **Intradyn Inc.** May 2011 to August 2012
Eagan, MN

- Built distributed search infrastructure using Erlang, Clojure and Python on Linux
- Rebuilt search page with jQuery UI plugins
- Used Apache Lucene to perform full-text searching and indexing
- Set up deployment and release management procedures using custom Python scripts and Puppet
- Took responsibility for managing software releases and deployment of updates

Associate Software Engineer at **Syncada LLC** June 2010 to May 2011
Minneapolis, MN

- Developed ASP.Net AJAX application to manage resource files for internationalization
- Rewrote internationalization code to have greater performance and flexibility
- Helped redesign application to be WCAG compliant
- Gained experience with C#, ASP.Net and Javascript

Junior Software Engineer at **Open Access Technology International** January 2010 to June 2010
Plymouth, MN

- Built common UI components using Microsoft Silverlight
- Implemented testing framework using NUnit
- Formalized requirements specification process
- Set up Subversion version control software
- Wrote stored procedures for Microsoft SQL Server databases
- Gained experience with C#, Silverlight and WCF Web Services

Junior Software Engineer (Intern) at **Parametric Technology Corporation** May 2007 to January 2009
Arden Hills, MN

- Updated junit based test framework to match current product API
- Scripted build and testing tasks with Python and Perl
- Automated UI tests with Selenium test framework
- Took responsibility for “embedded Quality Assurance” on the Windchill Change Management team
- Prototyped UIs with Google Web Toolkit
- Gained experience with Java, J2EE, and the Tomcat application server
- Worked in a team using the Scrum software development methodology

Web Developer at **University of Minnesota** September 2004 to January 2005
Minneapolis, MN

- Wrote CGI/Perl web application to help researchers manage grant applications
- Helped write Classic ASP web application to help researchers manage biological survey data
- Redesigned CSS to increase user friendliness while still maintaining compliance with W3C standards

Education

B.Sc. in Computer Science University of Minnesota (Twin Cities) 2009

Skills

- Works on personal open source projects (<http://github.com/quanticle>)
- Is self taught in major web programming languages, including Perl, Python, Ruby, PHP, and Javascript.
- Is self taught in major systems programming languages such as C, C++, Java and C#
- Familiar with Unix environments and Unix shells, including Bash and zsh
- Has set up and administered LAMP (Linux, Apache, MySQL, PHP) servers