

Christopher Michaelis

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Objective

My objective is to obtain consulting engagements on a telecommuting basis from my home office in Idaho, or in person in the Moscow-Pullman area. I primarily specialize in web application development, GIS application development, and desktop application development.

Education

- 2005-2007 - M.S. in Geographic Information Science with emphasis in GIS software development from Idaho State University.
- 2001-2005 - B.S. in Computer Science with emphasis in information systems from Utah State University.

Languages and Skills

Scripting Languages:

- BASH, C Shell, Korn Shell
- Perl
- PHP (4, 5, and 6)
- JavaScript (including libraries like jQuery, extJS, Prototype)

Database Technologies:

- MySQL, MySQL Cluster and Replication, MariaDB
- Microsoft Access
- Microsoft SQL Server
- PostgreSQL, PostGIS
- SQLite, SpatiaLite

Programming Languages:

- C, C++, Standard Template Library (STL)
- Microsoft Visual Studio, including Visual Basic 6 and .NET
- C# (including Mono and Microsoft implementations)

Operating Systems and Other Technologies:

- Windows Installation Creation (InstallShield and INNO Setup)
- Linux (all major distributions - Red Hat, CentOS, Debian, Ubuntu)
- FreeBSD (including ZFS configuration)
- Mail Transport Systems (sendmail, exim, postfix, dovecot, procmail)
- Web Servers (Apache, nginx)
- Networking (TCP/UDP programming, iptables, security practices)
- Adobe AIR
- ESRI ArcIMS and ArcGIS
- Quantum GIS, GDAL, OGR
- GML, KML, SVG
- HTML, CSS, XML, JSON
- Virtualization (VMWare, Xen, KVM)

Publications and Writing

- Using AutoCAD file formats with open source libraries – August 30, 2011
<http://www.ibm.com/developerworks/opensource/library/os-autocad/index.html>
- Bringing data together with OpenLayers – February 15, 2011
<http://www.ibm.com/developerworks/library/os-openlayers/>
- Using geospatial data in applications on Linux with GDAL – February 1, 2011
<http://www.ibm.com/developerworks/opensource/library/os-gdal/index.html>
- Simple and Clean Menus with jQuery - March 25, 2009
<http://www.westhost.com/blog/2009/03/25/simple-and-clean-menus-with-jquery/>
- More jQuery: BlockUI Plug-in - March 3, 2009
<http://www.westhost.com/blog/2009/03/03/more-jquery-blockui-plug-in/>
- Dynamic Websites with jQuery and extJS - January 13, 2009
<http://www.westhost.com/blog/2009/01/13/dynamic-websites-with-jquery-and-extjs/>
- Introducing the MapWindow GIS Project – OSGeo Journal, Vol. 2, September 2007.
<http://www.wanderingidea.com/linkedcontent/Ames-Michaelis-Dunsford--IntroducingMapWindow.pdf>
- Application of Open Geospatial Consortium Specifications to Client-Side Geographic Information Systems - Master's Thesis, May 2007
<http://chrismichaelis.com/linkedcontent/ChristopherMichaelis-MastersThesis.pdf>
- Evaluation of the OGC Web Processing Service for Use in a Client-Side GIS - OSGeo Journal, Vol. 1, May 2007.
http://chrismichaelis.com/linkedcontent/OSGeo_vol1_OGC.pdf

Work Experience

Hosting Systems, Inc. / UK2 Group

Director of Development

March 2008 - March 2011

- *Employee of the Month - February 2009*
- *Employee Spotlight - April 2009*
- *Employee of the Year - 2009*

I drove the development, administration and operations of high-availability web hosting services using Linux. I managed a small team, where we used dozens of technologies and languages including BASH, Perl, PHP, jQuery, MySQL, PostgreSQL, Sendmail, Apache, C and C++, cPanel, Sphera, and Xen, among others. We created public services for web hosting and domain management, as well as dozens of in-house tools assisting with support, technical administration, finance and business administration.

Idaho State Journal / Pioneer Newspapers

Assistant Director of Information Technology Services

July 2007 - March 2008

- *Employee of the Month - October 2007*

I monitored, optimized and maintained Linux, Mac OS X and Windows servers. This included developing monitoring systems to strive for a 24/7 uptime of all critical services, and developing high-performance PHP and Perl web applications for client and staff use.

Idaho State University
Senior Software Engineer
April 2005 - July 2007

I performed Windows programming and Linux system administration. I contributed heavily to the continued development and maintenance of MapWindow GIS, which I had worked on previously while employed by Utah State University. I made extensive use of Microsoft's Visual Studio, including C++, C# and VB.Net. I focused mainly on geospatial software and geospatial algorithms. I also maintained several web sites using PHP and ASP.Net.

WestHost, Inc.
Technical Support Representative
February 2005 - June 2005

I provided a great variety of technical support and system administration services to thousands of clients, working with Linux and Windows.

Utah State University Environmental Management Group
Windows Programmer
September 2002 - July 2005

I created enterprise data analysis tools for water-related modeling and prediction, and I created high-performance database management tools. I used a variety of languages including C#, VB.NET, C++ and T-SQL, and served in a lead programming role in a variety of projects.

Logan City Parks and Recreation
Part-Time Janitor and Weight Room Attendant
September 2001 - May 2003

I assisted with cleaning the facility and equipment, including annual maintenance operations. I supervised court-appointed workers serving public service hours, as well as monitoring activities in the weight room to ensure compliance with safety regulations.

Pretium Corporation
Windows Programmer and System Administrator
April 1996 - April 2002

My father and I started Pretium Corporation to build Windows-based information management systems for coroners and medical examiners. Primary technologies used include Microsoft Visual Studio 6, SQL Server, Seagate Crystal Reports and InstallShield Professional. In addition to software development, I maintained company hardware, including all software and hardware support and Windows Server administration.

Spillman Data Systems (now Spillman Technologies)
Quality Assurance Testing
June 1994 - November 1995

I tested software products for bugs and malfunctions, as well as for general usability and function. Software products ran on SCO Unix System V. I attended and passed a Unix Fundamentals training course, and assisted with setup of Wyse VT dumb terminal banks for user conferences.