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## **Objective**

To find an interesting position that challenges my talents and provides opportunities for growth.

## **Summary of Skills**

Primary area of expertise is in software development, with 9 years experience in client/server and web application development.

### **Web Application Development**

- Skilled in the design, development and deployment of Web-based applications and services
- Designed and developed SOAP clients and servers using C# and Perl to streamline communication between applications running on various platforms
- Highly competent in the design and development of web crawlers and scrapers to automate the collection, analysis, and indexing of data
- Experienced in the design and development of n-tier web applications using PHP, ASP, and ASP.NET to integrate multiple system and reduce the complexity of workflow
- Comfortable with the customization and maintenance of existing Open Source web applications to fit specific business needs
- Working familiarity with standards, such as HTTP, Javascript, HTML, XML, CSS, and RDF
- Familiar with the internal mechanisms of IIS and Apache through the use of ISAPI extensions and mod\_perl applications

### **Image Analysis and Manipulation**

- Fundamental understanding of the advantages and disadvantages of various image formats
- Intimate familiarity with ImageMagick toolkit and related
- Comfortable in designing and developing tools to analyze and extract descriptive data from images
- Optimize the creation of image thumbnails for both quality and size

### **Database Development**

- Extremely competent in database design and development
- Familiar with various RDBMS, such as SQL Server, Sybase, Oracle, MySql and Postgresql
- Experienced in the planning and executing of replication plans
- Proven ability to tune and optimize databases for optimum performance

### **Compilers and Debuggers**

- Familiar with creating Makefiles to automate the software build process
- Comfortable with using debugging tools such as gdb and strace to diagnose software problems
- Experienced using compilers from GNU, Intel, Microsoft, IBM, Sun, and Metrowerks to build software for a variety of target platforms, including PPC, x86, Novell Netware, and PalmOS

### **Desktop Application Development**

- Familiar with using Gtk, Gtk# and QT to build efficient cross-platform applications
- Experienced in the use of graphical toolkits, such as WinForms, MFC, WFC to create enhanced desktop applications
- Skilled in the design and development of n-tier applications on Windows- and UNIX-based systems

### **Server Application Development**

- Experienced in developing Windows services using C and C++ to monitor and manage processes without user intervention
- Familiar with the design and development of components for Microsoft Transaction Server
- Familiar with various methods of inter-process communication (IPC) to allow for the interoperability of applications

### **Management and Teamwork**

- Comfortable with creating custom IDE plugins to streamline the development and deployment process, such as publishing an ASP.NET application to multiple web servers with one click
- Familiar with various Source Code Control versioning systems, such as SourceGear Vault, Visual Source Safe, CVS, Arch, and Subversion
- Comfortable working either independently or in a team environment
- Proficient in managing schedules and deadlines to get the job done on time
- Skilled in communicating complex and technical concepts in simple terms to non-technical people

### **Secondary area of expertise is in networking and systems administration**

- Experience configuring and maintenance of DNS, HTTP, SMTP, POP3, and IMAP servers
- Familiar with using standard network tools, such as ping, traceroute, arp, dig, tcpdump and nmap to troubleshoot and diagnose problems
- Familiar with the basic principle, implementation, and maintenance of firewalls and proxies
- Comfortable with standard protocols such as HTTP, POP3, IMAP, SMTP, LDAP, NNTP and FTP

### **Experience**

**February 2000-Present – Chief Technologist** – VPP Technologies, Inc. (formerly Ditto.com, Inc.)  
Performed Research and Development relating to Paid Placement and Visual Search. Wrote and maintained the web crawler for the Ditto.com image search. Created a delivery system to combine images with textual paid placement ads in realtime. Designed and built a system to derive related search terms for paid placement ads. Designed and developed a series of image filters to maximize quality and minimize excess whitespace in image thumbnails. Created a system to generate image thumbnails of web pages in quasi-realtime. Created a text-filtering system to increase the coverage rate of paid placement advertising. Maintained a farm of web and database servers. Responsible for troubleshooting any and all technical problems that arose.

**October 1999-February 2000 – Sr. Software Developer** – Proxicom, Inc.

Worked for NBC to develop a web application to allow network affiliates to manage their broadcast schedule.

**May 1998-October 1999 – Sr. Software Developer** – DaVinci Software, LLC.

Developed an Investment Relations application that allowed financial analysts to publish stock trade information to corporate clients. Developed a candidate tracking and contact management application for an executive recruiting company.

**May 1995-May 1998 – Sr. Software Developer** - Helios Technologies, Inc.

Provided telephone and on-site technical support for point of sale software. Installed various local area networks using LANtastic and Microsoft networking. Developed internal customer tracking application. Developed trouble ticket tracking and return merchandise authorization system. Developed point of sale software for hair and tanning salons.

### **Achievements**

- Gave presentation of Mono (<http://mono-project.com>), the open source implementation of the .Net platform, at Penguicon 2.0, an Open Source conference, in April 2004
- Contributor to several open source projects, including wget, rhythmbox, and the Mono Project
- Freelance writer for Ars Technica (<http://arstechnica.com>)

### **Other Interests**

- Licensed Amateur Radio operator
- Member of the Chicago Perl Mongers user group
- Member of a Chicagoland speculative fiction writers group