

# PHILIP MATUSKIEWICZ

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## Career Objective

Highly skilled and self-taught systems administrator and developer seeking a long-term stable entry-mid level role that enables me to work with large production server environments where stellar uptime is required. I am very resourceful and use the most appropriate cost-effective solution (including open source) when able to do so. I quickly adapt to new situations and have the required patience to deal with urgent problems quickly, effectively, and calmly.

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## Education

University at Buffalo • Bachelors and Masters of Computer Science (Combined Degree) • May 2011

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## Skills and Expertise

- ❖ Systems Administration
    - Operating System Environment Experience (via command line and graphical interfaces):
      - Server: **Windows Server 2k+** (8 years), **CentOS**, RHEL, Ubuntu (4 years), FreeBSD (<1 year)
      - Desktop: **Windows 98+** (10 years+); **Centos**, ubuntu (4 years), **MacOS X 10.5** (1 year)
    - Extensive Server Administration Knowledge and experience (ordered most to least experience)
      - Web Servers: **Apache 2+** (4 years), IIS 6+ (4 years), Lighttpd (1 year), Tomcat (<1 year)
      - E-Mail Servers: **Exim** (3 years), **Sendmail** (3 years), **Exchange** 2007,2010 (2 years)
      - DNS Servers: Bind/Named (4 years), TinyDNS (2 years), DNSMasq (DHCP/DNS) (1 year)
      - Authentication: **Active Directory** (5 years), NIS (1 year), OpenLDAP
      - Database: **MySQL** (3 years), MSSQL (<1 year)
      - Webserver Control Panels: **WHM/CPanel**, LXAdmin, Plesk, Webmin
      - File Servers: NFS, VSFtpd, Proftpd, Pureftpd, Samba
      - Virtualization: Limited experience with VMWare ESXi and management tools
      - Streaming Media: Shoutcast (winamp), Windows Media Services (unicast / multicast)
      - Supercomputing: Condor Flock, Hadoop Distributed File System
      - Other: OpenVPN, VLAN configuration on DD-WRT, Nagios Monitoring, UnreallRCD, IPTables, IPFW
  - ❖ Programming
    - Experience with many programming languages, many listed below:
      - Web Oriented: **PHP**, **CSS**, **XHTML Strict**, Perl, SQL, ASP.NET, Ruby, Python, MySQL
      - Desktop Oriented: **Java**, **C/C++**, **Bash**, C# (.NET), Visual Basic, Powershell, Matlab
    - Integrated Development Environments and Text Editors
      - Eclipse, Vim, Nano, Pico, PHPDesigner, Visual Studio, Netbeans
    - Familiar Design Patterns: MVC, Singleton, Observer, and others
    - Familiar software versioning systems: Git (+ gitorious, indefero frontends), Svn (+ trac frontend), Cvs, Bazaar
    - Supercomputing: Nvidia Cuda, OpenMP, MPI, Condor, Hadoop MapReduce
  - ❖ General User Applications:
    - Web Development and Adobe: Photoshop CS3+, Some Flash and Premiere
    - Microsoft Office 2000+ (Word, Excel, PowerPoint, Access, Visio, Outlook)
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## Leadership

- ❖ **Lecturer**, Web Development and Administration Series at SUNY Buffalo (2009 and 2011)
  - ❖ **Teaching Assistant** for several introductory Java programming computer science courses (2009-2011)
  - ❖ **Webmaster**, IEEE Student Club at SUNY Buffalo (2009-2011). -Active member of National IEEE Society.
  - ❖ **Programmer**: UBTalker, [Dr. Kris Schindler], SUNY Buffalo, communications device for the disabled (2006-2009)
  - ❖ **Officer**: Residence Halls E-Board at SUNY Buffalo, (2006-2008)
  - ❖ **Certified Peer Tutor**: (CRLA) [Ms. Dineen] at Ellicottville Central School, (2004-2006)
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## Freelance

- ❖ **Contracted Programmer**: Various Conceptual.ly Projects (July 2011-present)
- ❖ **Web Hosting / Administrator (2005-Present)**:
  - **Founder and Lead Administrator** at Matthouse Web Hosting [www.matthouse.us], currently hosting 30 clients
  - Personal **technology blog** with solutions to system administration problems (www.famousphil.com/blog)
  - Maintenance of Amhosted production web servers [www.amhosted.com] (2007-2010)
- ❖ Volunteer **Technology Assistant** at Ellicottville Central School (2001-2006)
  - **Repaired computers and other hardware through software and hardware remediation techniques**
  - **Maintained software on teacher and student computers as well as Windows 2003 Servers**

## Related Systems Administration Projects

- ❖ **High Traffic website hosting** for a client, ~40 million+ hits / month and growing (April 2011-Present)
    - Configuration, Securing, and Optimization of Apache, Lighttpd, and MySQL on a Dedicated Web Server
    - Load balancing for static multimedia content using round robin DNS with geographic distribution of VPS's
    - Optimization of WordPress using W3 Total Cache plugin
  - ❖ Installation of **Open Source Software Versioning** Frontend Systems for various clients (Matthouse, 2011)
    - Gitorious, Trac, Indefero
  - ❖ Master's Project (SUNY Buffalo, 2010-2011)
    - **Installation, Configuration, and Management of Condor and Hadoop** on a large CentOS cluster
  - ❖ X10 Home Automation implementation (September 2010)
    - System consists of IR controller, Lamp, and Appliance modules to control everything in the home
    - X10 powerline control using CM15A USB Interface to Windows Server (Running a WAMP)
    - IR Integration for television, fan, projector, and stereo control using USBUIRT
    - Mobile Friendly HTML/PHP application written to send commands via the internet
    - A video was created and posted to my YouTube channel if you'd like to see the system work!
  - ❖ **OpenVPN installation and configuration** (September 2010 – May 2011)
    - Configured to bypass an ISP firewall (blocked all incoming traffic) to enable a VoIP connection
    - Accomplished using Layer 3 routing of a public block (/28) of IPv4 addresses to an internal network
    - Internal network computers used DHCP to grab a public IP address (from /28) with no firewalls imposed
    - Remote datacenter was chosen based on ISP routes to the closest datacenter (least amount of latency)
  - ❖ **Nagios Monitoring** Implementation for several Matthouse.us production systems (June 2010)
    - Live status webpage configured and displayed on the main Matthouse website
    - Monitors configured to monitor individual services using NRPE
    - Failures reported to administrators via email and text messaging
  - ❖ Standalone **Microsoft Exchange Server 03, 07, 10** installation, configuration, and maintenance (2009 – Present)
    - C# program that converts Exchange 2007/2010 calendars to an iCal file (using EWS)
    - **PowerShell** script that routinely backs up Exchange 2010 via PowerShell
  - ❖ **Hosting** and creation of private websites, eventually became Matthouse Hosting (2006 - Present)
    - Re-Tread Products – <http://www.retreadproducts.com>
    - Ellicottville Dental Group – <http://www.ellicottvilledentalgroup.com>
  - ❖ Perl shell script that reads several passwd files and outputs a proper aliases file (for sendmail) (2009)
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## Related Software Development Projects

- ❖ Independent Contractor – Conceptual.ly (July 2011-Present)
  - Completes various programming assignments with absolute deadlines, very quick paced start-up
  - WearingSocial.com – Social Clothing Company / Ecommerce Website (2 week project)
    - Developed several key image placement and text placement algorithms for T-Shirt designs
    - Developed the back end of the website and integrated it with a pre-designed front end design
- ❖ Master's Project (SUNY Buffalo, 2010-2011)
  - Implementation of a Bin Packing heuristic (first fit) using C++ and Object Oriented Programming concepts
  - Masters Thesis documenting the installation, configuration, and approximation algorithm
- ❖ Hadoop MapReduce implementation of Dijkstra's shortest path algorithm (SUNY Buffalo, 2011)
  - Weather data collection and analysis application (SUNY Buffalo, 2011)
  - Written using MySQL, Java Tomcat, SOAP, and Apache Struts
  - Hosted temporarily using an EC2 instance from Amazon Web Services
  - SOAP web services were offered through the application and consumed by a client application
  - Using jQuery and the Google Maps API, results from SOAP queries were displayed on a Google Map
  - Use of the singleton design pattern for MySQL Connectivity
- ❖ Creation of a website for the Center For Handicapped Children (SUNY Buffalo, 2010)
  - Worked with a team of 3 other students, product was never put into production use. Joomla used as CMS.
- ❖ Prime number generation using Nvidia Cuda (Tesla Units) and MPI in C (SUNY Buffalo, 2009)
- ❖ Creation of a Bit Torrent Command Line Client using socket programming in C (SUNY Buffalo, 2009)
  - Used SVN for versioning, worked with a partner using the Peer Programming technique
- ❖ Implementation of a chat server and client using Java RMI (SUNY Buffalo, 2009)
- ❖ Photo Gallery in PHP to display screen caps of television shows (caps.kpfanworld.com) (Matthouse, 2007)
- ❖ Completion of a fish tank simulation using Java and Design Patterns [Observer, Strategy] (SUNY Buffalo, 2006)