

Objective

A position as a programmer, web developer, technician or consultant.

Employment History

Programmer

Aerial & Remote Sensing Laboratory, Computer Science Department,
University of Massachusetts, Amherst

<http://cessna.cs.umass.edu>

<i>Undergraduate Researcher</i>	<i>Programming Contractor</i>
June 2007 – January 2008	April 2008 – August 2008, October 2008 – August 2009

Investigated camera calibration and developed software for removal of camera lens distortion, converted Unix C code for use on Windows, utilized Visual Studio and Matlab.

Web Developer

Physics Department, University of Massachusetts, Amherst

<http://www.physics.umass.edu>

<i>Web Developer</i>	<i>Web Development Contractor</i>
January 2006 – January 2008	April 2008 – Present

Overhauled existing code, developed and tested web applications, developed front-end and back-end software, upgraded and maintained web servers and workstations, collaborated with and trained staff and faculty.

Consultant

Magic Technology (dba), my independent consulting business

<http://www.MagicTechnology.biz>

<i>IT Consultant</i>	<i>Programmer</i>
April 1999 – Present	January 2003 – Present

Provided information technology consulting services, developed web applications, advised and trained personnel.

Technical Skills

Environments

Windows XP, Ubuntu, Red Hat, Fedora Linux, Gnome Desktop Environment, LAMP servers (Linux, Apache, Mysql, PHP), Mathematica, Matlab

Programming

C/C++, Java, PHP, HTML, CSS, Javascript, Reg Expressions, JQuery, Drupal, XML, Jython, Scheme, Mathematica, Matlab, Command-line Utilities, OpenCV (Open Computer Vision Library), GTK+ (linux, win32)

Applications

SVN, Trac, Adobe Photoshop, Dreamweaver, Illustrator, ImageReady, Gedit, Google Earth, Flash MX Studio, Mathematica 4.0, Mathworks Matlab 6.5, MediaWiki, Drupal, Microsoft Office, Visual Studio C++, Windows Remote Desktop, Sun OpenOffice, VNC

Education & Qualifications

Bachelor of Science in Mathematical Computing

University of Massachusetts, Amherst (umass.edu)

February 2003 – December 2007

Graduated *cum laude*, with cumulative GPA 3.5, Computer Science department GPA 3.78, Math/Physics department GPA 3.7

A+ Certification

CompTIA (comptia.org)

November 1999

The industry standard certification for computer support technicians.

Experience

Computer Programming

Object oriented programming (Java, C++); version control (SVN); web applications (PHP, Mysql, AJAX, Java, C++, PERL, Apache, Linux, Windows); data structures & algorithms (C++, Java, scheme); assembly language & computer architecture (ARM CPU); distributed systems & multi-threading (C++, Java); artificial intelligence (Java, Jython); database & information systems (Mysql, PHP, XML); scientific simulations (C++, Java, Matlab, Mathematica).

Collaboration

I have worked directly with engineers, technical managers and marketing staff on and off site. I have worked on projects independently and on teams.

Engineering

Software engineering; information systems; scientific computing; computer hardware; engineering physics, calculus and linear algebra; numerical approximations; electrical engineering.

Mathematics

Calculus 3; differential equations; numerical analysis; linear algebra; number theory; formal proofs; mathematical logic; natural language processing; artificial intelligence.

Contact Information

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See Also

My Unabridged Resume

<http://www.PlotkinSoftware.com/resume-full.pdf>