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Objective

My objective is to find a job as a programmer, web developer, computer technician or consultant. On past jobs I have worked directly with other engineers, technical managers and marketing staff. I am comfortable working independently or on a team. I have been involved in programming work since 2002, highly involved in work related to information technology since 1998, and a computer hobbyist (i.e. “geek”) since 1992. As a result I am familiar with a broad set of hardware and software technologies.

The aspects of a job that are most important to me are location, number of hours per week and work schedule. I am willing to negotiate on all aspects of the job including wage and benefits. My optimal job would allow me to perform many or all duties from my home office or be located near Amherst, MA with a flexible schedule.

Contact Information

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Education & Qualifications

Bachelor of Science Diploma

University of Massachusetts, Amherst (umass.edu)
February 2003 – December 2007

Major in Mathematical Computing, minor equivalent to Associate of Science in Computer Science (focus on systems programming), minor equivalent to Associate of Art in Philosophy (focus on logic and natural language translation). Graduated *cum laude*, with cumulative GPA 3.5 (which includes foreign language requirements); computer science department GPA 3.78, math and physics department GPA 3.7.

A+ Certification

CompTIA (comptia.org)
November 1999

The CompTIA 'A+ Certified Service Technician' certification is the industry standard for computer support technicians. The international, vendor-neutral certification proves competence in areas such as installation, preventative maintenance, networking, security and troubleshooting. CompTIA A+ certified technicians also have excellent customer service and communication skills to work with clients.

High School Diploma

Longmeadow High School (longmeadow.k12.ma.us)
June 1998

Focuses in high school: computer applications, computer based multimedia production and graphic design, and business, photography, social sciences.

Employment History

Technician, Programmer

independent consulting, dba Magic Technology, Amherst, MA

Technician

April 1999 – Present

Programmer

January 2003 – Present

Back in 1998 I started working at staples. After a few months there I started getting independent consulting jobs due to the fact that Staples did not provide those services at the time. After a year of working there and doing independent consulting on the side I had learned enough to pass the A+ exam without taking any courses. Eventually I had enough clients to leave Staples. I had to allow most of my clients to move on to other service providers while I was in college from 2003 to 2007. Today I still provide services to over 20 of my original clients on a semi-regular basis. Currently longest standing clients have been with me since 2000.

As a programmer I did the following:

Web development utilizing PHP, MySQL, javascript, HTML and in general LAMP setups. Also misc Java, programming. Mathematical and unix C++ programming. Websites with and modules for Drupal.

As a technician I did the following:

Windows (DOS, 3.1, 9x, NT, 2000, XP), Mac OS (6.x, 7.x, 8.x, 9.x), OSX, Linux/unix (various flavors) and application software troubleshooting and support. Hardware setup, troubleshooting, and hardware/software maintenance. Also some HTML, graphics and graphic design, simple web sites, marketing and end-user training.

<http://www.MagicTechnology.biz>

Study Center Assistant

Armstrong Consulting Inc., dba Kumon, Amherst, MA

Study Center Assistant

July 2008 – January 2009

My job here was to work directly with students to help them understand and master their material and grade their work. I was hired specially for my background in advanced mathematics, but I graded and assisted students with their reading/grammar related work as well. Mathematical topics included arithmetic, number theory, algebra, trigonometry, geometry, calculus and some other more advanced topics on occasion.

This was a non programming job I took because (1) it was within walking distance to my house (2) it allowed me to teach math to some extent and (3) the hours and work times were perfect. Unfortunately, due to the economic downturn they were unable to keep their most recently hired study center assistants.

<http://www.KumonAmherst.com>

Web Developer

University of Massachusetts Amherst, Physics Department, Electronics Shop

Web Developer

Jan. 2006 – Jan. 2008

Web Development Contractor

April 2008 – Present

Maintain, troubleshoot and design new features for The main departmental website and other related websites. PHP/MySQL, javascript programming, HTML/CSS layout, Photoshop graphics, etc. Also back-end support for Physics Department staff.

The job was originally an undergraduate job. After I graduated I was given a contract to perform the same duties at the same pay rate as an independent contractor. The contract has been renewed a number of times and is presently still in force.

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

Programmer

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

Undergraduate Researcher

June 2007 – January 2008

Software Consulting and Programming Contractor

April 2008 – August 2008,

October 2008 – August 2009

My research was on topics related to calibration of digital cameras, using the CalTech Matlab Calibration Toolbox. The cameras used in the lab have three CCDs and have near infrared rather than blue. The calibration allows the distortion introduced from the lens and camera system to be removed. This is essential when the information in the image is used to reconstruct a 3D model of the imaged surface.

After calibrating the camera my job was to implement the undistortion program in C++ (using visual studio in this case). This was partly implemented already in the open CV library.

This job was originally an undergraduate position. When I graduated I was given a contract at a higher pay rate to work on more in-depth programming projects related to my undergraduate research and work with the lab. That contract was later renewed and is currently in force until August 2009.

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

Technician

The Jones Library, Inc., Amherst, MA
April 1999 – August 2000

Hardware and software support of very old computers and networks: Microsoft DOS, Windows 3.1, 95, 98 and NT; challenges include: hardware speeds from 30mhz to 400mhz, limited RAM and hard drive space, slow congested network, publicly used computers with unsophisticated security software. (Now most are upgraded probably.)

<http://www.joneslibrary.org>

Technician

Americare Associates, Inc., South Hadley, MA
Technician, Web Site Designer
October 1998 – April 2000

Graphic design software support for Adobe Photoshop, Illustrator, Pagemaker, GoLive and Acrobat. Also support for windows and mac OS machines and LAN, networked printers and all technology maintenance. Some graphic design and page layout, and a lot of web site work. Other office work including building shelves, purchasing equipment. dealing with service providers, etc. (Out of business since 2005.) www.americareassociates.com, www.qualityseniorguide.com

Technician

Staples, Inc, Store #277, Hadley, MA
Sales Associate
August 1998 – November 1999
Technician
April 1999 – November 1999

Computer upgrades and troubleshooting. Sales of computer systems, hardware, software, customer service. The method used at the was not a typical sales situation where the salesman works on commission. It worked as follows: customers would come into the store generally knowing only their goals without any idea of how to accomplish them. My job was to understand the customers requirements and put together a minimal package of software and hardware (and services where applicable) to meet those requirements without including anything the customer did not need. (Staples Store #277, Hadley, MA).

Technical Skills

Operating Systems

- LAMP (Linux, Apache, MySQL, PHP)
- Mac OS Legacy (versions 6.0-9.0)
- Mac OSX 10.2
- Mathematica
- Matlab
- Red Hat/Fedora Linux
- Scheme
- Ubuntu Linux
- Windows Legacy (NT, 2000, 95, 98)
- Windows XP
- Adobe Illustrator
- Adobe ImageReady
- Adobe InDesign
- Adobe PageMaker
- Adobe Photoshop versions 3.0-7.0
- Adobe Premier
- AIM, GAIM, Pidgin
- Amarok
- Apache Server
- AppleWorks (ClarisWorks)
- Bash shell
- C/C++ standard libraries and templates
- Cool Edit
- Cute PDF
- DOS Shell
- Dr. Scheme
- Drupal (server side software)
- Gedit
- Gnome Desktop Environment
- Google Earth
- H&R Block TaxCut
- K Desktop Environment (KDE)
- Macromedia Sound Edit
- Magma Openstudio (PHP/HTML/Javascript IDE)
- Mathematica 4.0
- Mathworks Matlab
- Matlab 6.5
- McAfee Virus Scan
- MediaWiki (server side software)
- Metrowerks CodeWarrior 5
- Microsoft Excel XP
- Microsoft Internet Explorer 6.0, 7.0
- Microsoft Office 97 and XP
- Microsoft Outlook Express
- Microsoft PowerPoint XP
- Microsoft Visual Studio C++
- Microsoft Word XP
- Mozilla Firefox
- Mozilla Thunderbird
- mplayer
- Nero CD/DVD ROM authoring
- OpenOffice.org
- OpenCV (open computer vision C++ lib)
- Opera
- Photoshop (<= version 7)

Programming languages/systems

- Bash
- C
- C++
- Drupal
- HTML
- Java
- Javascript
- JQuery
- Jython
- Mathematica
- Matlab
- PHP
- Regular Expressions (perl, posix)
- Scheme
- Unix Standard Command Line Utilities
- XML
- GTK+

Software Applications

- ACT
- Adaware
- Adobe Acrobat
- Adobe Cool Edit (audio editing, previous Syntrillium)
- Adobe Dreamweaver (previously Macromedia)
- Adobe Golive

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- PHPBB (server side software)
- Pidgin (AIM, XMPP, yahoo msg, etc)
- Propellerheads Rebirth
- Propellerheads Reason (<= 2.5)
- Propellerheads Reason 2.5 (music production)
- putty
- QuickBooks
- RythemBox
- Spybot
- SQL queries in Microsoft Access
- SVN (and windows shell client)
- Trac (project management)
- The Gimp
- VNC
- Webroot Spysweeper
- wget (unix command)
- Winamp
- Windows Media Player
- Windows Movie Maker
- Windows Remote Desktop
- Windows Terminal Services
- WinSCP
- Wolfram Mathematica

Relevant Coursework Listed By Material Entailed

Programming

- Computer Science 121: Java 1 and general intro to computer programming.
- Computer Science 187: data structures and algorithms in Java.
- Computer Science 201: assembly language programming & computer architecture.
- Computer Science 287: programming language theories in scheme.
- Computer Science 311: advanced course in algorithms and data structures with proofs.
- Computer Science 320: intro. to software engineering.
- Computer Science 377: systems in computer science with a focus on large scale, distributed system.
- Computer Science 383: Artificial Intelligence (python, java, jython)).
- Computer Science 445: information systems, course long project was Internet movie database clone (similar to imdb.com)).
- Math 551: scientific applications of numerical analysis 1.
- Math 552: scientific applications of numerical analysis 2.

Engineering

- Computer Science 201
- Computer Science 320
- Computer Science 377
- Math 331
- Math 551
- Math 552
- Physics 151, 152: engineering physics I with lab, mechanics.
- Physics 153, 154: engineering physics II with lab, thermo and electromagnetic dynamics.
- Statistics 515

Mathematics

- Computer Science 250
- Computer Science 401
- Math 104: algebra, analytic geometry and trigonometry
- Math 131: deferential calculus
- Math 132: integral and differential calculus
- Math 233: multidimensional and vector calculus
- Math 235: linear algebra
- Math 331: ordinary differential equations for scientists and engineers
- Math 551: scientific applications of numerical analysis 1
- Math 552: scientific applications of numerical analysis 2
- Philosophy 110: symbolic logic and natural language translation
- Philosophy 514: mathematical logic
- Statistics 515: probability theory

Logic

- Computer Science 250: introduction to the mathematics of computation
- Computer Science 311: algorithms theory
- Computer Science 401: machine models and computability
- Philosophy 310: intermediate logic and language translation
- Philosophy 514: mathematical logic and set theories

Writing

- Computer Science 320
- Computer Science 401
- Math 370: natural language processing paper (the whole course was one paper, UMass required junior writing requirement)
- Philosophy 336: existential Philosophy

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- Philosophy 514
- Political Science 111: comparative politics
- Writing 112: UMass required freshman writing course

All courses taken at the University of Massachusetts, Amherst