

## Objective

I am seeking contracts for software engineering services focusing on web application development.

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## Employment History

### Software Engineer

Plotkin Software LLC., Amherst, MA  
[www.PlotkinSoftware.com](http://www.PlotkinSoftware.com)

*Software Engineer*  
Dec 2010 – Present

LAMP, jquery programming, custom ajax

### Software Engineer

Knowledge Matters Inc., Northampton, MA  
<http://prosim.knowledgematters.com/> ,  
<https://prosim2.knowledgematters.com/demo/publicview/psh2>

*Software Engineer*  
February 2010 – Nov 2010

Implemented necessary functions for interactions between flash app and LAMP/Codeignighter framework utilizing JSON and jquery.

### 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 – January 2010

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.

## Technical Skills

### Environments

OSX, iOS, Ubuntu, Red Hat, Fedora Linux, Gnome Desktop Environment, LAMP servers (Linux, Apache, Mysql, PHP), Mathematica, Matlab, Windows XP-Vista-7,

### Programming

PHP, HTML, CSS, Javascript, Reg Expressions, JQuery, Drupal, CodeIgniter, XML, AJAX, SOAP, Jython, C/C++, iPhone, Java, Scheme, Mathematica, Matlab, Command-line Utilities, CURL, data mining, 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, Xcart, Drupal, Microsoft Office, Visual Studio C++, Windows Remote Desktop, Oracle OpenOffice, VNC

## Education & Qualifications

### Bachelor of Science

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

Major: Mathematical Computing; Minor: Computer Science; Minor: Philosophy. Graduated *cum laude*, with general 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.

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## 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; computer hardware; engineering physics; numerical approximations; electrical engineering.

### Mathematics

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

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## Contact Information

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Amherst, MA 01002	<a href="http://www.PlotkinSoftware.com/jeff.html">http://www.PlotkinSoftware.com/jeff.html</a>

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**See Also**

**My Unabridged Resume**

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