

Objective

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

About Me

My work is done on websites which utilize public user login, excessive load, distributed computing technologies, cloud servers and load balancers, credit card processing and integration of php, mysql, html, javascript, css, html5, css3 and and live web APIs. My work is evenly distributed between front end and backend.

Employment History

Software Engineering Manager

Plotkin Software LLC., Amherst, MA
www.PlotkinSoftware.com

Partner
Dec 2010 – Present

Full stack LAMP, jquery, Twitter Bootstrap, Zombie MVC PHP Framework, custom ajax

Software Engineer

Knowledge Matters Inc., Northampton, MA
<http://prosim.knowledgematters.com/> ,
<https://prosim2.knowledgematters.com/demo/publicview/ps2>

Employee
February 2010 – Nov 2010

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

Jr. Software Engineer

Aerial & Remote Sensing Laboratory, Computer Science Department, University of Massachusetts, Amherst
<http://vis-www.cs.umass.edu/AerialImage/web/index.html>

<i>Undergraduate NSF Grant</i>	<i>Contracts</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.

Jr. Web Application Engineer

Physics Department, University of Massachusetts, Amherst
<http://www.physics.umass.edu>

<i>Undergraduate Employee</i>	<i>Contract</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

Ubuntu (Server, Desktop), OSX, iOS, Gnome Desktop Environment, amazon and rackspace cloud, Mathematica, Matlab, Windows, MS Visual C++, Xcode

Programming

PHP5+, HTML, CSS3, Javascript, Reg Expressions, JQuery, Drupal, bootstrap, Unify, Zombie MVC PHP Framework. CodeIgniter* , Wordpress, XML, AJAX, SOAP, Jython, C/C++, iPhone, Java, Scheme, Mathematica, Matlab, Command-line Utilities, BASH, CURL, data mining, OpenCV(Open Computer Vision Library),GTK+(linux,win32)

Applications

Teamwork.com, SVN, Trac, Gimp/Photoshop, Gedit, Google Earth, Flash MX Studio, Mathematica 4.0, Mathworks Matlab 6.5, MediaWiki, Xcart, Drupal, Wordpress, Libre Office, Visual Studio C++ , Windows Remote Desktop, Oracle OpenOffice, VNC, MYSQL Workbench, Firefox, Chrome

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 for computer support technicians.

ACM Member

Association for Computing Machinery (acm.org)
January 2013
Professional member in good standing.

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.

Contact Information

Jeffrey A. Plotkin 1-413-253-8070
Plotkin Software LLC resume@PlotkinSoftware.com
Amherst, MA 01002 <http://www.PlotkinSoftware.com/jeff.html>

See Also

My Unabridged Resume

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