

Patrick E. Vargas

UI/UX Designer | Software Engineer | Full Stack Developer
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Education

University of Colorado

Boulder, CO

Bachelor of Science, Computer Science, ~3.317 GPA

Graduating May 2014

- Atmospheric and Oceanic Science Minor | Technology, Arts and Media Minor
- Dean's List, Spring 2013, College of Engineering and Applied Science
- Dean's List, Spring 2011, College of Arts and Sciences

Skills

Programming Languages	C / C++, C#, Java, L ^A T _E X
Internet Technologies	HTML5 / CSS3, JavaScript (jQuery), XML / XSLT, MySQL, PHP
Operating Systems	Apple (OSX), Linux (Ubuntu, Apache, Red Hat), Microsoft (Windows 7)
Tools and Utilities	GDB, SVN, Git / GitHub < https://github.com/pevargas >, TeamCity, Eclipse, Xcode, Visual Studio, XNA Game Studio, OpenGL 2.0
Miscellaneous	Agile Software Development, Conversational French, Interpersonal Skills

Projects & Coursework

JamWalkr < http://jamwalkr.site11.com >	Project Manager and Full Stack Architect Created a music tagging application using Last.fm API, 8Tracks API, and Google Maps API through LAMP and AJAX. 2013 Mobile App Challenge 3 rd Place Winner
8-Bit Rhino < https://github.com/pevargas/8-Bit-Rhino >	Project Manager and Lead Software Engineer Developed a video game for the XBOX 360 using C# and XNA Game Studio.
Algorithms Studied < https://github.com/pevargas/Algorithms >	Bubble Sort, Merge Sort, Depth-First Search, Floyd-Warshall, and Quick Hull.
DNS Name Resolution Engine	Applied knowledge of threading, mutexes, and semaphores to generate list of IP address for common websites

Relevant Experience

Software Engineering Intern, Pitney Bowes Software

Boulder, CO

agile, c++, c, winapi, windows, linux, cppunit, visual-studio, svn, teamcity, gdb

May 2013 – present

- Improved performance of Geocoding <<http://www.pb.com/geocoding/>> software 10% by implementing Microsoft's Profile-Guided Optimization.
- Adapted the cppunit test-suite for Unix platforms, applying more thorough and rigorous software preparation.
- Researched the impact of byte order swapping on Big Endian machines.
- Automated script testing by creating an output parser employing pipes.

Freelance Web Developer, Running Creek Developers

Boulder, CO

html, css, sass, twitter-bootstrap, ruby-on-rails, jquery, javascript, coffeescript, sublime, github

Oct 2012 – Apr 2013

- Styled client websites using knowledge of Twitter Bootstrap.
- Enhanced user experience through Ruby on Rails and jQuery functionality.

Assistant Web Administrator, CU Book Store

Boulder, CO

html, css, xml, xslt, asp.net, asp.net-storefront, ratex, eratex, visual-studio

Feb 2012 – Jan 2013

- Increased credibility of site by styling webpages.
- Validated site to W3C standards.
- Improved online sales by adding 1300+ products to online store.
- Provided customer service by managing records in database.

Involvements and Leadership

- "Ask Me Anything" Volunteer <<http://foundation.cs.colorado.edu/AMACorps/>> ♦ Fall 2012 – present
- Active Member of Knitting Group ♦ Spring 2012 – present
- Vice President & Secretary for Engineering Student Group ♦ Fall 2011 – Spring 2012
- Secretary for Student Advisory Board to Student Resource Center ♦ Spring 2010 – Fall 2012
- Volunteer for Student Resource Center ♦ Spring 2010 – Spring 2011
- Instrumental Music ♦ Fall 2009; Fall 2012 – present

