



# Patrick E. Vargas

UI/UX Designer & Software Engineer & Full Stack Developer

## Education

### University of Colorado

Boulder, CO

May 2014

Bachelor of Science, Computer Science, 3.35 GPA

- » Atmospheric & Oceanic Science Minor
- » Technology, Arts, & Media Minor (*Graduated with Honors*)
- » Dean's List, Spring 2014 & Spring 2013, College of Engineering & Applied Science
- » Dean's List, Spring 2011, College of Arts & Sciences

## Skills

### Programming Languages

- » C, C++, Java, LATEX

### Internet Technologies

- » HTML5, Jade, CSS3, Less, Bootstrap, Grails, JavaScript, Node.js, Express.js, MongoDB, Mongoose.js

### Operating Systems

- » Apple [OSX], Linux [Ubuntu, Apache], Microsoft [Windows 7]

### Tools and Utilities

- » GDB, SVN, Git, GitHub, IntelliJ, Xcode, Visual Studio, XNA Game Studio, OpenGL 2.0, Google Maps API, 8Tracks API

### Miscellaneous

- » Agile Software Development, Conversational French, Interpersonal Skills

## Projects

### Queertionary

[www.queertionary.com](http://www.queertionary.com)

Jan 2014 – May 2014

Technology, Arts & Media Senior Thesis Project

- » Created Node.js Application to study the use of Queer Jargon.
- » Utilized APIs, such as UrbanDictionary, Tumblr, Twitter, Wikipedia, and Instagram, to compare and contrast word usages.

### GeoStan Application

Jan 2014 – Feb 2014

- » Implemented a GUI in the form of a Grails Application for GeoStan.
- » Utilized the Google-Maps API to display GeoStan output along side Google output.

### JamWalkr

[jamwalkr.site11.com](http://jamwalkr.site11.com)

Nov 2012 – Dec 2012

- » Created a music tagging application using Last.fm API, 8Tracks API, and Google Maps API through LAMP and AJAX.
- » 2013 Mobile App Challenge 3rd Place Winner

## Experience

### Software Engineering Intern, Pitney Bowes Software

Boulder, CO

May 2013 – May 2014

- » Improved performance of 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

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

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 & Leadership

"Ask Me Anything" Volunteer *Fall 2012 – Spring 2013*

Active Member of Knitting Group *Spring 2012 – Fall 2013*

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*

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