Patrick E. Vargas

Skills

Languages and Databases
» Groovy, Java, JavaScript, Processing, C/C++, HTML5/CSS3, PostgreSQL

Software, Frameworks, and Utilities
» AWS, Jenkins, GitLab, Spock, Grails, Node, npm, Angular, React, Chai/Mocha, SASS, Less, Bootstrap, Illustrator, Photoshop, InDesign

Miscellaneous
» Agile Software Development, Interpersonal Skills, Graphic Design

Experience

Software Engineer, Pitney Bowes Software — Boulder, CO / Somerset, NJ — Jun 2014 – Present
#grails #groovy #java #spock #postgresql #jenkins #git #gitlab #aws #bootstrap
» Implemented a status reporting website for stakeholders utilizing the Jenkins API.
» Led the team in transition from SVN to Git, providing tools and documentation to make the switch seamless.
» Built and automated a SQL testing framework for our data production pipeline.
» Setup a Continuous Integration server, using Jenkins, for our project space.
» Volunteered as Documentation Lead and Scrum Master to streamline efficiency of day-to-day team minutia.
» Created a per-revision, performance-testing and reporting system for a high-profile project.

Software Engineering Intern, Pitney Bowes Software — Boulder, CO — May 2013 – May 2014
#grails #java #javascript #less #c/c++ #perl
» Created a GUI for the US geocoder in the form of a Website to compare and contrast a competitor's geocoder.
» 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.

Projects

React Photo App — github.com/pevargas/react-photo-app — Sep 2016 – Present
#react #javascript #bootstrap
» Created a single-page photo application while grasping React framework design and best practices.

Playing Cards Module — github.com/pevargas/playing-cards — Jun 2016 – Present
#npm #javascript #chai/mocha
» Crafted a playing-cards JavaScript module to brush up on modern JavaScript programming best practices.
» Learned npm module management to better understand standard JavaScript distribution methodology.
» Implemented Chai and Mocha to solidify the viability of the module.

Portfolio Website [v5] — www.yesthisispatrick.com — Jun 2015 – Present
#aws #angular #javascript #bootstrap #sass
» Implemented a portfolio website with low maintenance and easy updatability.
» Incorporated well-maintained libraries and packages for quick uptime.
» Utilized Angular and AWS S3 for high functionality providing quick processing while cost-effective.

Geocoding Data Report — Feb 2015 – Present
#aws #grails #groovy #postgresql #jenkins
» Presented stakeholders with the most important, up-to-date product production status in an easily consumable website.
» Automatically collected and intelligently predicted quarterly production plans for efficient and minimal quarterly planning.
» Provided automated, up-to-date, detailed information concerning specific product information for use by customer service representatives and engineers.

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

Involements & Leadership

Instrumental Music *Fall 2012 – Spring 2016*
"Ask Me Anything" Computer Science Volunteer *Fall 2012 – Spring 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*

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