**David Vasquez**

155 NW Kings Blvd Apt 647

Corvallis, OR 97330

(925) 818-1172

Vasquezd@oregonstate.edu

***EDUCATION***

**Masters of Science, Cum Laude Oregon State University**

Masters of Business Administration June 2013

**Masters of Science, Cum Laude Oregon State University**

Radiation Health Physics June 2010

**Bachelor of Science, Cum Laude Oregon State University**

Health Management and Policy December 2007

***TECHNICAL EXPERIENCE***

* **Languages:** Java, JavaScript, Python, PHP, C, Swift
* **Data Analysis:** Stata, Rand multiple programming languages for analysis
* **Development:** JSON, REST architecture, curl, React, Redux, Jquery, Axios, WAMP stack, NPM, Composer, Google APIs, Google Map APIs
* **Databases:** MySQL, Microsoft SQL Server, knowledge of design and analysis of RDBMS
* **Front End:** HTML5, CSS3, SASS, Bootstrap, UI Kit, Use of Responsive Design Principles
* **Development Tools:** Git, Github, Bitbucket, XCode, Visual Studio, Eclipse

***WORK AND RESEARCH EXPERIENCE***

**Software Development**

Oregon State University Corvallis, Oregon 1/2016 to Present

* Responsible for backend and front end projects utilizing JavaScript, JSON, Java, SQL, Microsoft SQL Server, HTML5 and CSS3
* Software Designer involved with restructuring, debugging and updating server code; responsible for new code being 15% the size of old structure and 27% of original file size
* Developed a REST API (GET, POST, JSON) for a new system to push database changes to all active users and lobby displays for Oregon University System
* Worked with Google APIs for a number of projects including developing a mileage tracker and cost calculator

**Research Assistant and Instructor**

Oregon State University Corvallis, Oregon 9/2014 to 1/2016

* Worked as a research assistant responsible for collecting data and statistical analysis utilizing Python, R and Stata
* Designed all course curriculum for and instructed Ba 260
* Performed data analysis and collection with PHP, JavaScript, MySQL and Apache web server
* Developed a REST API for user data (in JSON format) to be pulled from and added to a MySQL database

**Information Technology Coordinator**

Oregon State University- Student Life Corvallis, Oregon 6/2013 to 9/2014

* Led technical aspects of and was responsible for all data during transition to new career database containing over 6,000 employers and 60,000 student records
* Built algorithms in Java and Python to analyze 5 years of departmental data to create a report for Department Staff and Dean of Student Life
* Developed full stack projects utilizing (JavaScript, PHP, JQuery, CSS, HTML, SQL, RDBMS)
* Built algorithms in Java to analyze this data to create a report for Department Staff and Dean of Student Life

**Graduate Assistant**

Oregon State University- Career Services/Student Life Corvallis, Oregon 1/12 to 6/13

* Created, tested and implemented a system for OSU employers and students which sends out specific job postings to students based on their major. The system was in use by over 30,000 students and 6,000 employers
* Helped plan and organize for Career Fairs and co-supervised undergraduate staff team members
* Co-formed and helped lead Career Services Advisory Committee with NW Employers including Target, Boeing, Rubicon, Boys and Girls Club, Enterprise Rent a Car, United Way and others

**Research and Teaching Assistant: Department of Nuclear Science and Technology**

Oregon State University Corvallis, Oregon 10/07 to 5/10

* Designed, tested and built digital radiation and detection software and was lead on all aspects of design, testing and documentation
* Research was funded by the Nuclear Regulatory Commission and Department of Nuclear Science and Technology
* Teaching assistant for graduate and undergraduate courses including supervising safety procedures around lab equipment in an instrumentation lab with radioactive materials

**Instructor: Radiation Biology**

Linn Benton Community College Albany, Oregon 9/08 to 09/10

* Course instructor responsible for designing all course curriculum and instructing course over multiple terms
* Biology course covered cell biology, biophysical events, cellular level radiation effects, cell survival and recovery, dose response curves, systematic responses, hematologic and cytogenetic effects, and stochastic effects of radiation

**Instructor: Radiation Physics**

Linn Benton Community College Albany, Oregon 9/08 to 09/10

* Design curriculum for and instructed course which met ASRT Standards
* Physics course covered math and physics basics, atomic and nuclear structure, EM and particulate radiation, photon interactions, differential absorption and principles of attenuation

**Student Athlete Tutor: Athletic Department**

Oregon State University Corvallis, Oregon 10/07-6/08

* Tutored student athletes in math and health physics courses

**Legacy Health System**

Supply Chain Business (Intern) Portland, Oregon 07/06 to 09/06

* Analyzed Legacy Health System’s supplier contracts to create a marketing plan to attract and retain minority owned vendors and presented plan to key company executives

***CAMPUS and VOLUNTEER WORK***

**OSU Computer Science Senior Capstone Project Sponsor**

Oregon State University Corvallis, Oregon 9/2017 to Present

* Developing a mobile application that will allow students to find events and follow on campus groups
* The mobile app is being developed with React Native connecting to a REST API and users will authenticate with OAuth2
* The backend is being developed with PHP and MySQL will utilize JSON for data transfer

**Startup co-Founder**  Corvallis, Oregon 05/17 to Present

Rad Alert

* Currently working with two Nuclear Engineering Faculty on a startup related to Homeland Security

**OSU Mobile App Club** Corvallis, Oregon 2013-2014

* Member of OSU App Club which designs native and non-native apps for mobile devices

**OSU Community Affairs Task Force**

Member and Volunteer Corvallis, Oregon 2012

* Worked with a Task Force chaired by OSU President to improve community and university relations due to strains on local community due to growing student population body

**OSU Disability Affairs Task Force**

Member and VolunteerCorvallis, Oregon 2012

* Worked with a Task Force to improve accessibility access on campus for all students

**American College of Healthcare Executives**

President Corvallis, Oregon 10/05 to 6/06

* Managed and organized all ACHE activities and led executive board members

**Health Management Advisory Board** Corvallis, Oregon 9/05 to 6/06

Student Advisor

* As the president of ACHE was selected to be a member of faculty comprised Health Management and Policy Board for guiding and shaping the HMP curriculum

**American College of Healthcare Executives** Corvallis, Oregon 10/04 to 6/05

Vice President

* Assisted President with ACHE activities and duties

***FELLOWSHIPS, GRANTS and AWARDS***

**Achievement Rewards for College Scientists**  2010

**Fellow**

* Nominated by Faculty and Selected for ARCS Fellowship providing $6,000 per year fellowship

**Grant Winner for Digital Radiation Software Design** 2008

* $8,000 dollar grant for software design

**Nuclear Regulatory Commission Research Grant** 2008-2010

* Full tuition and .49 Salary

**Legacy Health System Scholar** 2005

* Nominated by faculty and selected for Legacy Health System Scholarship

**Dosimetry Group Project Manager** 2008

* Graduate representative of Dosimetry Project for NE/RHP Dosimetry 490/590

**US Department of Energy Scholarship for Nuclear Engineering/Radiation Health Physics** 2005

* Interviewed and was chosen for an undergraduate scholarship

**Mortar Board National Honor Society**  2004

* Nominated for and selected to be involved in Mortar Board National Honor Society

***PROGRAMMING PROJECTS***

**ShareShare (In Beta)**

* Summary: Building a file sharing cloud system that simplifies file sharing with friends
* Technology: JavaScript, React JS, JQuery, multiple plugins, PHP, MySQL

**Web Parser and Database**

* Summary: Shopping comparison parsed from the web with over 10,000 items and images
* Technology: Built in an object oriented style with Java and Python, MySQL Relational Database

**C Experiment**

* Summary: Built a system to determine probability of randomly constructing the simplest C algorithm running at 1 iteration per second
* Technology: Built with C and Python