

David Vasquez

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EDUCATION

Masters of Science, Cum Laude
Masters of Business Administration

Oregon State University
June 2013

Masters of Science, Cum Laude
Radiation Health Physics

Oregon State University
June 2010

Bachelor of Science, Cum Laude
Health Management and Policy

Oregon State University
December 2007

TECHNICAL EXPERIENCE

- **Languages:** Java, JavaScript, Python, PHP, C, Swift
- **Data Analysis:** Stata, R and multiple programming languages for analysis
- **Development:** JSON, REST architecture, 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 Nuclear Engineering and Radiation Health Physics courses including supervising safety procedures around lab equipment in an instrumentation lab with radioactive materials where safety was the highest priority

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 Rad Alert	Corvallis, Oregon	05/17 to Present
<ul style="list-style-type: none"> Currently working with two Nuclear Engineering Faculty on a startup related to Homeland Security The process involves developing a business plan, manufacturing, sales, patents and NDAs 		
OSU Mobile App Club	Corvallis, Oregon	2013-2014
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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 Volunteer	Corvallis, Oregon	2012
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> Managed and organized all ACHE activities and led executive board members 		
Health Management Advisory Board	Corvallis, Oregon	9/05 to 6/06
Student Advisor		
<ul style="list-style-type: none"> 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		
<ul style="list-style-type: none"> Assisted President with ACHE activities and duties 		
<u>FELLOWSHIPS, GRANTS and AWARDS</u>		
Achievement Rewards for College Scientists		2010
Fellow		
<ul style="list-style-type: none"> Nominated by Faculty and Selected for ARCS Fellowship providing \$6,000 per year fellowship 		
Grant Winner for Digital Radiation Software Design		2008
<ul style="list-style-type: none"> \$8,000 dollar grant for software design 		
Nuclear Regulatory Commission Research Grant		2008-2010
<ul style="list-style-type: none"> Full tuition and .49 Salary 		
Legacy Health System Scholar		2005
<ul style="list-style-type: none"> Nominated by faculty and selected for Legacy Health System Scholarship 		
Dosimetry Group Project Manager		2008
<ul style="list-style-type: none"> Graduate representative of Dosimetry Project for NE/RHP Dosimetry 490/590 		
US Department of Energy Scholarship for Nuclear Engineering/Radiation Health Physics		2005
<ul style="list-style-type: none"> Interviewed and was chosen for an undergraduate scholarship 		
Mortar Board National Honor Society		2004
<ul style="list-style-type: none"> 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. The system is very object oriented and will have a complete file management system
- 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