

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

WORK AND RESEARCH EXPERIENCE

Software Developer

Oregon State University Corvallis, Oregon 1/2016 to Present

- Responsible for backend work and front end projects utilizing React, 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

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

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
- Designed, developed and tested CS Dashboard used to track departmental records

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
- Managed and used Symplicity and CSO Databases with over 6,000 employers and 60,000 students and alumni, this includes data analysis of events to determine program and event efficiency
- 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 algorithm construction and software development cycle from start to completion
- Research involved data collection of radioactive isotope for around 2 years in a lab setting in order to build software that modeled isotopic spectroscopic behavior
- Research was funded by the Nuclear Regulatory Commission and Department of Nuclear Science and Technology; Grant winner of \$8,000 in additional funding for software development
- 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

TECHNICAL EXPERIENCE

- **Languages:** Java, JavaScript, Python, PHP, C, Swift
- **Data Analysis:** Stata, R and multiple programming languages for analysis
- **Development:** React, React Native, Redux, Jquery, Axios, JSON, REST architecture, Docker, WAMP stack, NPM, Composer, Google APIs, Google Map APIs
- **Databases:** MySQL, Microsoft SQL Server, MongoDB, 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

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 Java and the Spring framework and will utilize JSON for data transfer and will be built on Amazon AWS S3 and RDS

- 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
 - The process involves developing a business plan, manufacturing, sales, patents and NDAs
- OSU Computer Science Senior Capstone Project Sponsor (Location Tagging Service)**
Oregon State University Corvallis, Oregon 9/2015 to 6/2016
- Worked as a project sponsor with a team of undergraduate students on their senior project, including facilitating project idea, meetings, deadlines and grading a portion of the total project to develop a mobile application that allowed users to add “tags” to physical locations and view others tags
 - The application was developed with Objective C and Swift and had Python and Django for the Server
- 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 Volunteer Corvallis, 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
- National Science Foundation** 2008
- Honorable Mention for original Thesis Proposal which changed
- 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. The system is very object oriented and will have a complete file management system
- Technology: JavaScript, React JS, JQuery, multiple plugins, PHP, MySQL

Evently (In Development)

- Summary: Evently is a web application and mobile app to allow students to easily find and subscribe to campus and community groups
- Technology: The native iPhone app is being developed with Swift and the native android app with Java. The login will be handled with OAuth 2.0 and the server will be a REST API built with Python and the Laravel Framework

Kite (In Development)

- Summary: Building a simple social application to make a Christmas or birthday wish list and easily share with friends and family
- Technology: UIKit, JavaScript, React JS, AJAX, 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