**David Vasquez**

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***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

***WORK AND RESEARCH EXPERIENCE***

**Software Developer**

Oregon State University Corvallis, Oregon 1/16 to Present

* Responsible for backend work and front end projects utilizing React, JavaScript, JSON, Cold Fusion, 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 9/14 to 1/16

* Worked as a research assistant conducting data collection and statistical analysis utilizing Python, R and Stata
* Analyzed data with graphical, parametric and nonparametric methods for comparing samples; ANOVA; simple linear regression and multiple linear regression
* Designed all course curriculum for and instructed Ba260
* Received above average student teaching evaluations related to University and College of Business scores

**Information Technology Coordinator**

Oregon State University- Student Life Corvallis, Oregon 6/13 to 9/14

* 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 to analyze 5 years of departmental data to create a report for Department Staff and Dean of Student Life
* Designed, developed and tested Career Services 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

* 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
* 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
* Funded by the Department of Nuclear Engineering/Radiation Health Physics in conjunction with the Nuclear Regulatory Commission. Grant winner of $8,000 in additional funding for software development
* Conducted research on radioactive isotopes for around 2 years in a lab setting in order to build software that modeled isotopic behavior
* Used this data to construct algorithms to design, test and build digital radiation detection software
* Received funding through the Nuclear Regulatory Commission and applied for and won an additional research grant during research
* Designed, tested and built digital radiation and detection software. Was lead on all aspects of algorithm construction and software development cycle from start to completion
* Funded by the Department of Nuclear Engineering/Radiation Health Physics in conjunction with the Nuclear Regulatory Commission. Grant winner of $8,000 in additional funding for software development

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***TEACHING EXPERIENCE***

**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

**Instructor: Radiation Biology and Radiation Physics**

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

* Design included all course materials, tests and lectures to fit ASRT Standards
* Course instructor responsible for designing all course material including lectures, tests and quizzes
* Biology course covered basic cell biology, biophysical events, cellular level radiation effects, cell survival and recover, dose response curves, systematic responses hematologic and cytogenetic effects, and stochastic effects of radiation
* Physics course covered math and physics basics, atomic and nuclear structure, EM and particulate radiation, photon interactions, differential absorption and principles of attenuation

**OSU Computer Science Senior Capstone Project Sponsor (Location Tagging Service)**

Oregon State University Corvallis, Oregon 9/2015 to 6/2016

* Developed 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

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**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, C, PHP, JavaScript, Python
* **Other:** R, Stata, JQuery, HTML5, CSS3, WAMP and LAMP stack, Wordpress, Node.js, Laravel framework
* **Statistical:**
* **Databases:** MySQL, MongoDB (NoSQL), /SQLite and knowledge of design and analysis of RDBMS
* **Operating Systems:** Windows, Mac OS X, Linux, Android
* **Development Tools:** Visual Studio, Eclipse, Git, Github, Bitbucket, XCode

***CAMPUS and VOLUNTEER WORK***

**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

**Senior Capstone Project Sponsor** 2014-2105

* OSU Computer Science Department senior capstone project sponsor

**OSU Computer Science Department Project Sponsor** Corvallis, Oregon 2014-2015

* 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

**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

**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***

**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

**ShareShare (in development)**

* Summary: Building a file sharing cloud system that simplifies file sharing with friends. The system is very object oriented and will has 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: Intelligence is a system to determine probability of randomly constructing the simplest C algorithm running at 1 iteration per second
* Technology: Built with C and Python

***REFERENCES***

**Dr. David Hamby**

**Graduate Advisor**

Professor, Nuclear Science and Engineering

Oregon State University

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**Tarren Engberg**

**Co-worker**

Program Analyst

Quantum Engineering Design

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**Rachel Finch**

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