***WORK EXPERIENCE***

**Software Developer/Software Engineer/Analyst Programmer/Test Engineer**

Oregon State University Corvallis, Oregon 1/2016 to Present

* Work as a developer designing, coding and testing new applications and features to existing web and desktop applications utilizing Python, JavaScript, Linux, Git, GitHub, JSON, SQL, HTML5 and CSS3
* Member of test engineering team utilizing Python to develop a test framework for a software and hardware HVAC system with network capabilities (this was done as part of a University partnership with Fujitsu)
* Wrote test cases, documented bugs and utilized version control for software and hardware development as part of Fujitsu project
* Worked to develop a number of RESTful APIs that allowed applications to interface with our data for a number of financial and data driven projects (HTTP, GET, POST, JSON)
* Led Project to restructure, debug and update server code for OSU Transportation Services; responsible for new code being 15% the size of old structure and 27% of original file size
* Developed and maintained a number of software systems for OSU including writing code to integrate third party APIs like Google and third party vendor software
* Developed a RESTful API (GET, POST, JSON) for a new system to push database changes to all active users and lobby displays for Oregon University System

**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, Java and R
* Retrieved data through utilizing RESTful APIs and web scraping (JSON, XML, Python, Beautiful Soup)
* Designed all course curriculum for and instructed Ba 260
* Developed a RESTful API for inputting user data (in JSON format) and securely added to a MySQL database

**Analyst Programmer/Information Technology Coordinator**

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

Main

* Worked as a developer on a number of software systems primarily utilizing Python, Java, JavaScript, Git, GitHub, SQL and MySQL
* Developed full stack projects utilizing JavaScript, PHP, JQuery, CSS3, HTML5, MySQL, RDBMS
* Helped manage our cloud based data systems housing 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
* Co-Supervised six undergraduate students who helped with a number of technical tasks including database maintenance, data analysis and digital communication and marketing
* Helped design, develop and test a number of business based microservices to track departmental records
* 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
* Helped maintain and develop our Drupal Site

**Graduate Research 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
* Helped with digital marketing including employer newsletter, social media, updating Drupal website and working with marketing team to develop promotional material

**Graduate 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
* 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 Engineering
* Nominated by faculty as an ARCS Fellow ($6,000 per year) and co-wrote and received distance education grant for software ($8,000)
* Teaching assistant for graduate and undergraduate courses including supervising safety procedures around lab equipment in an instrumentation lab with radioactive materials
* 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 and Radiation Physics**

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
* 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, Node.js
* **Development:** React, React Native, jQuery, JSON, AWS, REST architecture, WAMP stack, NPM, Composer, Google APIs
* **Databases:** MySQL, Microsoft SQL Server, knowledge of design and analysis of RDBMS
* **Front End:** HTML5, CSS3, Bootstrap, UI Kit, Use of Responsive Design Principles
* **Development Tools:** Git, Github, Bitbucket, IntelliJ, Eclipse, Jira, Slack

***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

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

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

* Developed a native mobile application that allowed users to add “tags” to physical locations
* The application was developed with Objective C and Swift and had Python and Django for the Server

***PROGRAMMING PROJECTS***

**ShareShare (In Beta)**

* 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, users, login and registration, notifications and friends

**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

***MY JOB LIST***

Software Developer- 1/16 to Present

Research Assistant- 9/14 to 1/16

Information Technology Coordinator- 6/13 to 9/14

Graduate Research Assistant- 1/11 to 6/13

Research Assistant- 10/07 to 6/10

Student Athlete Tutor: Athletic Department- 10/07-6/08