

## James E. Sandoval

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## EDUCATION

**Oregon State University**, School of Electrical Engineering and Computer Science  
B.S., Computer Science

**Aug 2017**

**Western State Colorado University**

B.A., Anthropology, Minor: Business Administration

**May 2008**

*Selected Coursework:* Analysis of Algorithms • Business Communications • Business Law • Computer Architecture & Assembly Language • Computer Networks • Cultural Ecology • Introduction to Databases • Data Structures • Discrete Structures • Mobile - Cloud Software Development • Financial Accounting • Open Source Software Development • Statistics & Data Analysis • Operating Systems • Principles of Marketing • Software Engineering • Usability Engineering • Web Development

## SPECIALIZED SKILLS

### Web Development

Experience with Node.js, Ruby on Rails, Python, RESTful API development, AJAX, JavaScript (Angular, jQuery), JSON, XML, PHP, HTML, CSS, Bootstrap, Sass, Less, MySQL, SQL, NoSQL, MongoDB, NDB

### Programming Languages

Experience with C/C++, x86 Assembly, Bash, Python, MATLAB, Java, Visual Basic

### Misc Technologies

Experience with Adobe CC(Photoshop, Illustrator), Git, GitHub, Slack, Sublime Text, Visual Studio, LaTeX, Linux, Vim, Windows, Google App Engine(Python/Java), AWS, DNS, Heroku, Wordpress, Drupal, Joomla, Raspberry Pi, Arduino, Zigbee

## RELEVANT ACADEMIC PROJECTS

### C/C++ and MATLAB Group Project - Algorithm Analysis Project

- Collaborated remotely with a team of 3 peers to design and implement algorithms to solve problems within a given set of parameters.
- Developed solutions primarily using Divide and Conquer, Dynamic and Linear Programming, Hueristic and Approximation algorithms.
- Thoroughly analyzed algorithms through unit testing, time complexity analysis, and detailed academic reporting.  
*Tech:* C/C++, LaTeX, MATLAB, Slack, Google Docs, Github, Linux, Bash, Sublime Text, Vim

### C Based Testing Suite - Dominion Card Game Test Suite

- Researched and developed various testing strategies, including unit, integration and system testing.
- Discovered and fixed various bugs/inconsistencies in codebase to ensure program functioned as intended.
- Produced timely reports detailing bugs found, how they were fixed, and how they might be avoided in the future.  
*Tech:* C, Linux, GDB, Bash, Sublime Text, Vim

### CRUD based Web Application - Furniture Bank - A Community Exchange

- Collaborated with a team of 4 peers to design, develop, test, and deploy a CRUD based web application using agile methodologies.
- Met and exceeded client expectations; Built features ahead of schedule and exactly to customer specification.  
*Tech:* Node.js, Express, JavaScript, JQuery, MySQL, Docker, HTML, CSS, Bootstrap

### C/C++ Command Line Game - The Lost City of Paititi

- An old school text based adventure game built using C++; Demonstrates the use of Object Oriented Programming including such features as polymorphism, inheritance, virtual classes, varied use of the STL, and more.
- Thoroughly tested and documented; Individual project from design to development.  
*Tech:* C/C++, Linux, Xcode, Vim, Bash

### RoR Web Application - Perseus Web Crawler

- Collaborated with a team of 3 to build a RoR web application incorporating Python, Angular, Bootstrap, and D3.js
- Built python(Flask/Scrapy) REST API to obtain scraper data for front-end.
- Created graphical representation using D3.js for scraper result.  
*Tech:* RoR, JavaScript, JQuery, D3.js, Angular, Python, Flask, HTML, CSS, Bootstrap, Sublime Text, Linux, Github

## WORK EXPERIENCE

### P-3 Flight Engineer/Crew Chief, United States Navy

**2013 - 2017**

- Responsible for preflight and post-flight operational checks of all aircraft systems, weight and balance computations, takeoff performance calculations, coordination of aircrew and ground support personnel, fueling, and maintenance/operation of all aircraft systems.
- Performed in-flight operation of aircraft during normal/emergency phases while assisting with navigational, tactical, and communication procedures.

*Tech:* P-3 Orion Aircraft, Nalcomis, Access, Excel, Outlook, Slide rule

- Lead Flight Crew Scheduler, United States Navy** **2013 - 2017**
- Built daily flight schedule in a highly dynamic environment with a high stress load.
  - Report creation using Excel, Sharp, and other tools to ensure all requirements met on daily basis.
- Tech: MS OFFICE(Access, Excel, Outlook, Word, Powerpoint), SharePoint, SHARP, NALCOMIS
- Aircrew/Aviation Electrician's Mate/Flight Engineer Student, United States Navy** **2011 - 2013**
- Naval Aircrew Candidate School (NACS), Naval Air Technical Training Center (NATTC).
  - Flight Engineer System Familiarization (VP-30).
  - Student, Survival, Evasion, Resistance, and Escape (SERE).
- Tech: P-3 Orion Aircraft, MS Office
- Web Developer/Consultant, SimpleNinety Media/James Sandoval LLC.** **2005 - 2011**
- Create custom websites including complete e-commerce solutions using Wordpress, Joomla, and Drupal.
  - Implement innovative solutions to grow businesses using branding, SEO, and social media strategies.
- Tech: Illustrator, Photoshop, Lightroom, Dreamweaver, MS Office, FTP, DNS, GoDaddy
- Web Content Manager, T. Rowe Price** **2010 - 2011**
- Collaborate with marketing, design, and legal teams to plan and develop site content, style and layout.
  - Collect and curate survey data for future campaign strategies.
- Tech: Photoshop, Dreamweaver, Vignette (Open Text CMS), MS Office, FTP
- Html E-mail Marketing Developer, UBM Tech** **2009 - 2010**
- Maintain expert knowledge of HTML/CSS regarding best practices for HTML email development.
  - Produce and test HTML and CSS mail assets that will function across a number of platforms and email clients.
- Tech: Photoshop, Dreamweaver, Mailchimp, Microsoft CRM, MS Office