James E. Sandoval

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EDUCATION

Oregon State University, School of Electrical Engineering and Computer Science **Aug 2017**
B.S., Computer Science

Western State Colorado University **May 2008**
B.A., Anthropology, Minor: Business Administration

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, Rasberry 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