James E. Sandoval

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EDUCATION

Oregon State University, School of Electrical Engineering and Computer Science   **Sep 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

Development

Frameworks/Environments:
Angular, Drupal, Joomla, Node.js, React, Ruby on Rails, Wordpress
Services:
AWS(lightsail, EC2, Route53/DNS), Google Cloud Platform, Heroku, Pythonanywhere, Scrapinghub
Libraries:
Babel, Bootstrap, D3, Handlebars, Jade, JQuery, lodash, Mocha, Phantomjs, Semantic Ui, Selenium, webpack
Databases:
Relational(MariaDB, MySQL, PostgreSQL), NoSQL(MongoDB, NDB)
Techniques:
Ajax, Object Oriented Design, RESTful API design, Agile,
Servers:
Apache, Flask, NGINX, Node.js(Express)
Languages:
CSS, HTML, JSON, Less, PHP, Ruby, SQL, Sass, XML

Software Engineering

Programming Languages:
C/C++98/C++11, Java, JavaScript/ES6, MATLAB, PHP5/7, Python 2.7/3.6, VBA, x86 Assembly Language
Scripting Languages:
AWK, Bash, JavaScript, Make, Sed

Software Tools

Graphics/Documents:
Adobe CC(Acrobat Pro, Illustrator, Photoshop), Google Docs, LaTeX, MS Office
Collaboration:
Git, GitHub, Gchat, Gmail, Google Docs, Outlook, Slack, Skype, Teams
Text Editors:
Notepad++, Sublime Text, Vim, Visual Studio IDE, Xcode
Operating Systems:
Linux(Debian, Raspbian, Ubuntu), macOS, Windows(XP thru 10), Virtualization(Parallels, VirtualBox)

WORK EXPERIENCE

SDET - Test Automation Engineer, Modis Engineering   **Nov 2017 - PRESENT**
- Create custom test automation infrastructure to test functionality and content on more than 80,000 dynamic web pages across 56 languages.
- Employ creative methods to validate language content using machine learning techniques in local and cloud based environments.
- Generate custom html and excel reports using various methods and libraries.
- Quickly gained up to speed with unfamiliar libraries and languages to assist and train team members on new environments, processes and techniques.
  Environment: Linux, Bash, AWS/EC2, NGINX, MySQL, SQL, PHP7, Python, JavaScript, Google Cloud Platform, Gherkin, Jira, MS Office, VBA, HTML, CSS, Github, Teams, Google Docs

P-3 Flight Engineer/Crew Chief, United States Navy   Jan 2013 - Jan 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.
- Perform in-flight operation of aircraft during normal/emergency phases while assisting with navigational, tactical, and communication procedures.
  Environment: P-3 Orion Aircraft, Sharepoint, NALCOMIS, Access, Excel, Outlook

Lead Flight Crew Scheduler, United States Navy   Jan 2013 - Jan 2017
- Build 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.
  Environment: MS OFFICE(Access, Excel, Outlook, Word, Powerpoint), SharePoint, SHARP, NALCOMIS

Aircrew/Aviation Electrician/Flight Engineer Student, United States Navy   Jan 2011 - Jan 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).
  Environment: P-3 Orion Aircraft, MS Office

Web Content Manager, T. Rowe Price   Jun 2010 - Dec 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.
  Environment: Photoshop, Dreamweaver, Vignette (Open Text CMS), MS Office, FTP

Html E-mail Marketing Developer, UBM Tech   Sep 2009 - May 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.
  Environment: Photoshop, Dreamweaver, Mailchimp, Microsoft CRM, MS Office

Web Developer/Consultant, SimpleNinety Media/James Sandoval Llc.   Aug 2005 - Jan 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.
  Environment: Illustrator, Photoshop, Lightroom, Dreamweaver, MS Office, FTP, DNS, GoDaddy

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 complex problems within a given set of parameters.
- Develop 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.
  Environment: 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.
  Environment: 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.
  Environment: 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.
  Environment: 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.
  Environment: RoR, JavaScript, JQuery, D3.js, Angular, Python, Flask, HTML, CSS, Bootstrap, Sublime Text, Linux, Github