Dan j Carroll

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DjC
djcarroll.me

Junior full-stack web developer and Linux System Administrator transitioning from 15+ years in civil engineering role. Deeply interested in gaining knowledge while solving challenging problems.

Education

Rackspace Open Cloud Academy   2017
9-week immersive Linux System Administrator program focused on Linux, Apache, Cloud Server technologies, and customer service support.

Codeup   2016
16-week immersive full-stack web development program with over 500 hours focused on LAMP+J languages and technologies.

Coursera • edX   2015-2016
Introduction to Computer Science and Programming Using Python - MIT
Programming for Everybody (Python) – Univ. of Michigan
Python Data Structures – Univ. of Michigan

Texas A&M University   1997 -2000
Bachelor of Science – Civil Engineering

Master of Engineering – Civil Engineering

United States Air Force Academy   1989 -1993
Bachelor of Science – General Studies

Technologies

HTML5, CSS, JavaScript, PHP, MySQL, Linux, Apache, Laravel, jQuery, Vue.js, Twitter Bootstrap, Python, SSH, JSON, Version Control (Git)

Certifications

Red Hat Certified System Administrator 170-111-850

Licensed Professional Engineer (Texas) 95615

Experience

Web Developer
Whisker.net   2016-2017

Travel website specializing in finding airfare deals for worldwide destinations. Updated and created MySQL database tables for city travelogues and developed interfaces for their content management system with a Laravel framework and internal data entry pages. Utilized Vue.js to create email subscription services tied to the MailChimp API service. Designed flight search page with Vue.js that implemented RESTful API functionality for retrieving flight information and pricing.

Skillet-Ninja.com • Codeup Capstone Project   2016

A web based virtual cooking assistant that narrates your recipes for you as you cook. Built the recipe manager with a MySQL database and Laravel framework on the back-end. Created the recipe creation front-end, leveraging Twitter Bootstrap and JavaScript for faster completion and consistent styling for the mobile responsive flat design.

Project Manager • Project Engineer * Design Task Lead
HNTB   2008-2016

Worked as a senior civil engineer designer and team leader on a wide variety of road and highway design projects. Focused on design, small team leadership, and software environment functionality improvements. Utilized the Scrum methodology for design and plan production work.

Lead roadway designer for San Antonio's first toll highway system on Interstate 35. Utilized InRoads 3D modeling and analysis techniques to design three multi-level highway to highway interchanges and 18 miles of elevated toll lanes for the $2 billion construction project.

Designed the roadway and drainage improvements utilizing GeoPak for the City of San Antonio's $10 million bond project on Jones Maltsberger. Worked closely with local artist Mark Schlesinger whose public art project was a component of the roadway project.

Proposed and designed a roundabout for Galm Road at Government Canyon State Natural Area that improved safety and saved Bexar County over $1 million in construction and right of way expenses. As the project engineer, designed roadway, drainage, signing, striping, construction phasing, and SAWS utilities. As the Project Manager, conducted construction observation and project closeout.

Project Engineer • Design Task Lead

Camacho-Hernandez	2007-2008
Jacobs Engineering	2005-2007
Lockwood, Andrews & Newnam	2003-2005

As a mid-level engineer I was typically responsible for the design of one major roadway system (e.g. frontage roads, drainage, or construction phasing). This type of work required constant communication with other design teams to ensure my component fit within the framework of the overall roadway design.

Traffic Engineer

Pape-Dawson Engineers	2001-2003

Performed and guided over 20 land development traffic impact studies for major local developers and companies through City of San Antonio's approval process.

Modeled traffic operations for eight major roadways with over 70 signalized intersections and developed peak hour timing plans to improve traffic flow.

Space Operations Officer • United States Air Force

Chief, Operations Training, Launch Crew Commander	1995-1997
Missile Warning Crew Commander	1993-1995

Responsible for developing a new training program for the Atlas and Delta launch vehicles. Worked with NASA and Air Force engineers to develop a program recognized as the "Best in Space Command" by the Air Force Inspector General. Delivered six months ahead of schedule.

Led a three-man crew providing rapid response for nuclear missile launch detection to the National Command Authorities.

Recognized as an effective team leader, winning Company Grade Officer of the Quarter and my team winning Crew of the Quarter.