**A.V. RODRIGUEZ**

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### **Summary**

Cloud Solutions Architect and Software Release Manager with over 13 years of progressive technology experience. Skilled at Cloud Solutions Architecture, Continuous Integration and Delivery (CI/CD), Release Management, SAFe Agile Project Management, DevOps, Business Intelligence, Enterprise Architecture, Agile Methodologies, Software Design, and Software Development Life Cycle (SDLC). Fluent in English and Spanish.

### **Experience**

**SAIC | NASA – Sr. Principal Cloud Engineer November 2021 to Present**

* Supporting the development of NASA’s Extra Vehicular Activities (EVAs) compelling features using modern tools and technologies with a focus on building future-proof systems that perform at scale.
* Maintaining and deploying critical infrastructure components through Infrastructure-as-Code with Terraform across multiple accounts and environments in AWS.
* Implementing and maintaining an enterprise-grade security posture for all production and non-production systems.
* Created AWS machine learning services with Textract OCR and Transcribe.
* Containerization with AWS ECR with docker for image deployments.
* Enabling fast deployment and scaling of containerized workloads with AWS ECS.
* Creating new tenants in a multi-account architecture environment.
* Identifying process improvements and opportunities for automation.
* Assist with application migration to the cloud by providing terraform modules
* Maintain and build CI/CD pipelines in Jenkins and GitHub Actions.

**TZN Solutions LLC – Cloud Solutions Architect/Release Manager October 2017 to Present**

* Providing guidance for solutions design strategy and DevOps consulting services
* Leading customers towards best practices in cloud adoption and innovation business engagements
* Designing, building, optimizing, migrating applications, infrastructure, software, and services on AWS.
* Providing consulting on agile project management frameworks such as scrum, Kanban, SAFe, and Agile Development engineering practices
* Working with project management teams to deliver software projects, and provide visibility on delivery scope, timelines, and expectations.
* Maintaining technical relationships with customers and prospects for product developments to identify and communicate solutions to meet customer business needs by gathering requirements to create solutions and products within AWS.
* Assisting the sales and technical teams through preparation and delivery of technical presentations and statements of work by matching specific client business requirements with effective technical solutions.
* Seek out ways to utilize SFDC to improve processes and productivity and make recommendations to support an organization scaling at a rapid pace.
* Implement industry best practices for managing CRM systems i.e., Salesforce as well as experience with Salesforce DX
* Working with development teams to automate deployments either on premises or in the cloud
* Managing executive customer relationships and key business stakeholders
* Designing and provisioning Infrastructure as Code with CloudFormation and Terraform for large scale IT systems.
* Systems monitoring experience using AppDynamics, New Relic, Splunk, Datadog, AWS CloudWatch, CloudFront, CloudTrail, SNS, Landing Zone, Secrets Manager, and SQS.
* Creating AWS web services and alerts using AWS SNS, and Lambda.
* Setting up a Multi-Tenant Architecture with Control Tower and Landing Zone in AWS
* Automation and improvements of reliability and performance of on premise and cloud infrastructures.
* Creating deployment pipelines and Configuration Management utilizing multiple tools such as Ansible, Jenkins/CloudBees, AWS CodeDeploy, CodeBuild, CodeCommit, Bitbucket, GitHub Actions, GitLab, Azure DevOps, Bamboo, TeamCity, and Octopus Deploy.

**Boeing/Dell – Sr. DevOps Administrator (Contract) March 2021 to August 2021**

* Responsible for building real-world solutions to a technical vision, design, and architecture of DevSecOps software tools, infrastructure, automation, and integration to achieve efficient DevSecOps tool delivery.
* Leveraging knowledge of Continuous Integration, Continuous Delivery tools, such as the Jenkins, Bitbucket and Azure DevOps tool suites to guide one or more delivery teams on a coherent DevSecOps vision, roadmap, architecture, and implementation plan to achieve an efficient model and approach to delivering DevSecOps tools to software engineering teams.
* Providing strong technical solutions leadership to one or more teams delivering the same or similar tool suites.
* Migrating Jenkins to CloudBees CI
* Working with IT Architects and others to unblock tool delivery teams when technical solutions are complex, varied, unclear, or unfamiliar.
* Working with multiple teams to gather requirements, dependencies, define capabilities, and develop solutions that meet the customer and users’ needs.

**U.S. ARMY/UKI – Sr. DevOps Release Manager (Consultant) April – August 2020**

* Designed and implemented new deployment pipelines in Bitbucket with YAML and enabled Jenkins jobs
* Migrated 23 microservices written in Node.js from GitHub to Bitbucket and GitLab
* Utilizing Kompose to translate Docker Compose files into Kubernetes resources.
* Deploy multiple microservices and Docker Compose images via OpenShift into development and production environments.
* Administered full deployment lifecycle in OpenShift.
* Managed deployments in Jenkins, Artifactory, and OpenShift.
* Experience with the OC cli for projects in OpenShift, OS Online, and MiniShift.
* Worked closely with project managers and developers for product releases and training support.

**AWS Architect, Wencor Group for TekPartners November 2019 to May 2020**

* Design, deploy and maintain enterprise class security, network, and systems management applications within an AWS environment.
* Hands-on experience on designing and implementing cloud solutions using various AWS Services including EC2, ECS, IAM, ASG, RDS farms, VPC, S3, Lambda, Directory Services, Cloud Formation, Direct Connect, Cloud Watch, system manager, etc.
* Implementing process and quality improvements through task automation. Institute infrastructure as code, network automation, and routine maintenance tasks
* Setting up and configuring NAKIVO for backups and replications.
* Good knowledge of networking fundamentals, server administration, Agile methodology, and DevOps best practices.
* Working with business unit managers to understand project scope, suggest possible alternatives, and document each step of the design.
* Monitored systems using AWS CloudWatch and CloudTrail.

**Software Release Engineer, Boston Consulting Group at Intermountain Healthcare September to November 2019 (Consultant)**

* Automate multiple deployment processes in the healthcare industry in Atlassian Bamboo.
* Implementing automated regression test scripts within the deployment pipelines.
* Troubleshooting, building, and deploying iOS and Android applications.
* Working closely with Project Managers, Developers, and Automation Engineers to configure & edit test scripts.
* Using Appium, Selenium WebDriver, react-native, and Allure to create automated test projects for iOS.
* Experience with Kubernetes and OpenShift.

**AWS Solutions Architect, Disney World June to September 2019 (Contract)**

* Responsible for designing, building, and supporting the public and private AWS and Azure cloud platforms by creating infrastructures, application architecture, building deployment pipelines and extending the deployment platforms.
* Meeting with clients and development teams to gather requirements, creating architectural diagrams in Google Draw and Visio.
* Translating business requirements into technology solutions that factor in system performance, usability, scalability, quality, cross-system interdependencies, and total cost estimates.
* Knowledge of multiple AWS services such as EC2, ECS, Lambda, Lambda batch, S3 buckets, R53, IAM, VPCs, RDS-MariaDB, DynamoDB-NoSQL, Cloud Watch, AWS MQ.
* Automating AWS Landing Zone deployments for migrations.
* Develop, maintain, and analyze automation processes and tooling in AWS environments.
* Docker and docker compose containerization experience.
* Monitored systems and applications using AppDynamics.

**Senior Release Manager, Acumen Solutions March to June 2019 (Consultant)**

* Worked with customers to plan and schedule tactical business and technology events, such as software patching, maintenance, or minor releases that impact Salesforce, in a manner calculated to minimize disruption to customer's business
* Building and configuring release packages in GIT for the Salesforce CRM application.
* Ensuring that the Incident Management processes and procedures were followed, the right resources are working on the incident, and that the appropriate management escalations take place and on time.
* Providing Salesforce systems expertise to KPMG, users, and external clients including trouble shooting build issues, as well as identifying and correcting inefficiencies.
* Ensuring uptime, service-level agreement (SLA) compliance, and overall reliability of the delivery of our services to our clients.
* Leading line organization resources as necessary during a major incident to ensure that the correct focus and attention are being applied in resolving the incident

**Cloud DevSecOps Engineer, PwC October 2018 to January of 2019 (Consultant)**

* Creating new environments using Infrastructure as code (IaC) with Terraform and Packer to be deployed to Azure and AWS.
* Developing and configuring new modules in Terraform Enterprise
* Creating new Azure security and Hashicorp Sentinel policies written in JSON and PowerShell
* Configuring VMs, NSGs, Networking, Load balancers, Policy settings in Azure
* Experienced in setting up Docker images, middleware, as well as PostgreSQL databases
* Worked with project teams to enable overarching guidelines
* PostgreSQL database setup and configuration

**DevOps Engineer, Ernst & Young July to September of 2018 (Consultant)**

* Designed and implemented CI/CD pipelines with Azure DevOps.
* Implemented CI/CD pipelines with Azure DevOps and Octopus Deploy for on-prem deployments.
* Created scripts for automation and testing
* Worked with project teams to enable overarching guidelines
* Used AppDynamics to monitor the performance and availability of applications

**DevOps Build and Release Manager, Hilton Grand Vacations March to June 2018 (Consultant)**

* Migrating builds from TeamCity and Octopus Deploy into Azure DevOps by creating new pipelines in conjunction with Microsoft Azure.
* Managed user security groups and assigned work items in Azure DevOps
* Successfully migrated code from Microsoft’s Team Foundation Server into Azure DevOps.
* Created pipelines for development into Dev, QA, UAT, and Production.
* Experience with software release management, designing, building, and administering continuous integration environments.
* Working knowledge of Azure Infrastructure as a service (IaaS), PaaS, and SaaS.
* Administered software configuration management tools such as Octopus Deploy, TeamCity, TFS, Azure DevOps, and Microsoft Azure.
* Performing build configurations and deployment automations in Azure DevOps.

**NASA - Software Release and Delivery Integrator (Contract) November – March 2018**

* Release Integrator for the launch simulation project
* Evaluate all requests proposing change to established and supported platforms, identifying, analyzing, and documenting potential risks or issues
* Worked with developers, product managers and operations engineers to define, manage and execute milestones for each release
* Managing project schedules to stay within the established budgets using Primavera (Oracle)
* Utilized Acura for source control
* Design, configure, and troubleshoot code deployments and builds
* Administering IBM AIX and Linux OS systems

**DevSecOps Engineer, Experian Health Nov 2017 to January 2018 (Consultant)**

* DevOps Software Administration (Jira, Confluence, HipChat, Bitbucket, Jenkins, Crowd, SonarQube)
* Performed Software upgrades, troubleshooting, end-user support, and user management.
* Windows and Linux Server configuration using Ansible
* Migrating applications from Surround to Bitbucket.
* Troubleshooting builds, deployments, and resolve both Linux and Windows server issues.
* Deployed Octopus Deploy to over 1500 servers using Final builder.

**U.S. Air Force Simulation and Modeling Software Integrator, May to October of 2017 (Contract)**

* Executed the AFMSTT (Air Force Modeling and Simulation Training Toolkit) a simulation-based training system experience program software integration process as directed.
* Integrated new software components and documentation with existing system configuration and deployment information.
* Managed the AFMSTT test and production baselines in Git and GitLab.
* Utilized Jenkins and Maven for continuous integration and delivery.
* Collaborating with other engineering functions on the Integration, test, and Configuration Management processes.
* Generated and managed production and daily development builds using Jenkins and Maven.
* Participated in day-to-day Agile software development activities including the design, development, and test of software components.
* Scripting experience utilizing python and bash.
* Admin and baseline management experience using GitLab.
* Strong experience in using the Atlassian tool suite. (Jira, SourceTree, Confluence, etc.)
* Developed and managed end-to-end DevOps systems and processes.

**DevOps Systems and Release Engineer, NBC Universal Golf Channel June 2016 to May of 2017**

* Designed and implemented application builds, releases, and configuration activities in a DevOps agile environment utilizing tools such as TFS, continuous integration tools for .NET, C#, and Java applications, cloud infrastructure setup, and systems monitoring with New Relic and App Dynamics.
* Reviewed each release by identifying potential risks, production system impact, and assisted with the release communications for code development, QA testing, and production environments.
* Automated code builds with continuous integration (CI/CD) tools using Bamboo, Jenkins, Team City, Udeploy, and IBM Urban Code.
* Utilized AWS, Microsoft Azure, and Rackspace to migrate and setup web, application, and Microsoft SQL servers, by providing platform as a service (PaaS) and infrastructure as a service (IaaS) for both internal and international clients.
* Worked closely with the development teams to troubleshoot and resolve issues related to application development, builds, and deployment to QA and production.
* Monitored systems using New Relic and Solar Winds.
* Strong experience with the Atlassian toolset, JIRA, Confluence, Bitbucket.

**Sabre Corporation 2012-2016**

**DevOps Manager**

* Managed the DevOps team that consisted of Configuration/Release Engineers, Implementation Specialists, and Test Automation. Responsible for source code build planning, automating builds, and implementing new airlines in our data center or cloud infrastructures.
* Lead any line organization resources (e.g. Operations Support, Network Support, Developers DBAs, QA) as necessary during a major incident to ensure that the correct focus and attention are being applied in resolving the incident.
* Scheduling limited environment resources.
* Ensured that the Incident Management processes and procedures were followed, the right resources were working on the incident, and that the appropriate management escalations took place and on time.
* Analyzed system performance and monitoring of ASP.NET, C#, and VB6 applications, server performance, network, and health monitoring using tools such as New Relic, App Dynamics, Splunk, and SolarWinds.
* Provided systems expertise to system users, business partners, and other internal/external clients including trouble shooting issues, as well as identifying and correcting inefficiencies.
* Ensured uptime, service-level agreement (SLA) compliance, and overall reliability of the delivery of our services to our clients.
* Monitored all change management functions and ensured compliance to business requirements.
* Created DevOps training curriculums on systems setups, client implementation processes, and full application usability walk-throughs.
* Performed code inventories in TFS for merging solutions into client specific code branches and ensuring that all application dependencies were met.
* Responsible for the DevOps release reports and metrics definition related to the release processes.

**Software Product Analyst/Engineer, Product Management**

* Maintained technical relationships with customers and prospects for product developments to identify and communicate solutions to meet customer business needs by gathering requirements to create solutions and products within the Radixx Passenger Service Systems product suite.
* Assisted the sales and technical teams through preparation and delivery of technical presentations and statements of work by matching specific client business requirements with effective technical solutions.
* Researched, architected, developed, and deployed automated software test frameworks for automated evaluation of multi-component software systems.
* Managed the product design budget by calculating the estimated time on resources.
* Translated business requirements into systems functional and system design specifications using Visio and Enterprise Architect.
* Technical resource for the sales, management, and front-line technical support of customer service managers.

**Configuration Manager**

* Lead the Configuration Management team on migrating our source code repository from Visual Source Safe to TFS, building and deploying code, and implementing new airlines into the Radixx PSS suite.
* Set up full airline systems including Global Distribution Systems (GDS), Departure Control Systems, internet booking engines, call center applications, SMS messaging, MQ and Rabbit MQ, travel agent reporting systems, electronic data interchange (EDI/EDIFACTS), APIs, and Oracle databases.
* Setup and configuring full environments using virtualization software such as VMware and MS Hyper-V.
* Greatly reduced the airline implementation process from three weeks down to two days, while ensuring the continuation and enhancements of services.
* Successfully implemented over 35 airlines into the Radixx Passenger Services Systems product suite.
* Worked closely with the development team to setup and configure applications that are written in VB6, C#, Java, .NET, HTML, CSS, and JavaScript.
* Code builds, merges, branching, rebasing, deployments, and staging using TFS 2010-2015
* Worked with the IT department to ensure that the required infrastructure was in place for client go live dates.
* Managed user accounts and code branches using TFS online for deployments to QA, UAT, and production.
* Migrated third party credit card processors source code from GIT into TFS.
* Used change management request to coordinate with Software Architects, Software Engineers, QA, Business Analysts, and other support staff for code deployments, configurations, and product upgrades.
* Managed Oracle database access and user accounts on Linux servers via SSH connections.
* Worked closely with development to create build and test scripts written in PowerShell.
* Performed functional system and data testing of enhancements including regression testing.
* Ensured that any test scripts are documented, reported, and tracked in Apache Subversion (SVN).
* Utilized Liquibase scripts for tracking, managing, applying database schema changes, and upgrades.

### **Education**

Bachelors in Architecture at the Polytechnic University of Puerto Rico – 2005

A.A. Degree in Architectural Drafting and Design at NUC College – 2001

IATA Airline Business Foundations Certification License 0000402201 – 2015

AWS Solutions Architect Associate Certification

Management of Information Systems and Business at the Interamerican University of Puerto Rico (Currently enrolled)

### **Technical Skills**

**Operating Systems**

RedHat 8/CentOS 7/Ubuntu 20

Mac OS | iPhone iOS

Microsoft Windows

Windows Server

**Software**

Apache Subversion (SVN)

Atlassian Tools

AutoCAD

Beyond Compare

Bitbucket

Confluence

Docker

Enterprise Architect

GitHub, GitLab

JIRA

Kubernetes

Liquibase (Apache)

Microsoft Hyper-V

Microsoft SQL Management Studio

Microsoft SQL Server

Microsoft Visio

MS Office 365

Salesforce

Soap UI

Sourcetree

SQL Navigator for Oracle

Team Foundation Server (TFS) 2010-2017

Terraform Enterprise

VMware

Virtualbox

**CI/CD & Configuration Management Tools:**

Ansible

Artifactory

Azure DevOps

Bamboo

Bitbucket

CodeDeploy

CodeBuild

CodeCommit

GitHub/GitHub Actions

GitLab

Jenkins/CloudBees

Octopus Deploy

TeamCity

**Cloud Platforms:**

Amazon Web Services (AWS)

Azure

CloudHesive  
Rackspace

**Monitoring and Logging Tools:**

App Dynamics

Datadog

New Relic

Splunk

**Scripting & Coding:**

PowerShell

Bash

Python

T-SQL, P-SQL

HTML, XHTML, CSS, and XML

**Networking Tools and Protocols:**

Load Balancing

Firewalls

IP White/Blacklisting