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(Other)

Top Skills

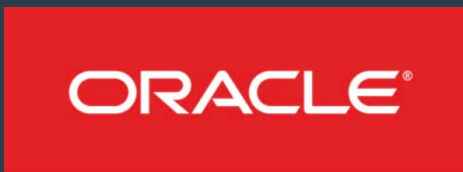
GlusterFS
Red Hat Cluster Suite
Red Hat Satellite

Certifications

BMC Certified Operator: BMC
BladeLogic Server Automation 8.1

Honors-Awards

PDIT Excellence Award Q4 2016
Equity Awards FY20(16/17/18)



Christopher Stacks

Senior DevOps Cloud Engineer @ BCU, U.S. Navy Veteran |
FedRAMP | RHCE | CEH
Kane County, Illinois, United States

Summary

As a Staff Cloud Engineer with over 15 years of expertise in cloud engineering, DevOps, and systems engineering, I specialize in migrating, automating, and managing cloud infrastructure for both public sector and commercial clients. My certifications, ranging from CompTIA and LPIC credentials, to Red Hat Certified System Administrator in OpenStack, and Red Hat Certified Engineer, underscore my deep proficiency across various cloud platforms and technologies.

I am passionate about public sector cloud computing, FedRAMP compliance, and building custom automation solutions where common tools fall short. I've developed an array of processes utilizing Python, Bash, Kubernetes, Terraform/Bicep, Jenkins, and Concourse to streamline operations and deployments in OCI, AWS, Azure, and VMware SDDC environments. My focus on root-cause analysis, remediation, and long-term success helps reduce errors and drive efficient results. I thrive in collaborative, innovative teams that align with my values and dedication to continuous improvement.

Experience

BCU

Senior Cloud Engineer
December 2023 - Present (11 months)
Vernon Hills, Illinois, United States

- Led the development of a Qualys server solution at BCU to enhance team workflows. Created a proof of concept in just one month, modernizing and migrating away from Excel for task assignments.
- Built a Python-based CLI for Azure Cloud, ADO, and Qualys Server resources, boosting efficiency. The CLI automates resource deployments with bicep templates, interacts with ADO for ticket management, and runs custom PowerShell scripts across the Azure environment.



- Designed and implemented a dynamic web interface using Ubuntu, Flask, Dash, HTML, CSS, and JavaScript, leveraging the Qualys API to optimize backend operations.
- Developed a MySQL-powered backend with PowerBI integration to provide streamlined and efficient reporting.

GOAAT

Application Development, Open Source Projects

September 2023 - Present (1 year 2 months)

Chicago, Illinois, United States

In my role at GOAAT, I spearheaded the development of an innovative application that streamlined interactions with major cloud providers and key APIs. This project involved supporting 7 different clouds and creating a single interface for seamless access to all providers, enhancing efficiency and productivity for users.

Common cloud providers consist of GCP, OCI, AWS, AZURE, OVHAI, and more! Easily toggle and navigate the CLI, with custom shell and highlighted syntax control, helping anyone to master the command-line.

VMware

Staff Cloud Engineer

April 2022 - September 2023 (1 year 6 months)

McHenry County, Illinois, United States

- Developed Python modules using Click 8.1.3 and Fernet for encryption to migrate VMC toolkits from Bash/Curl API interactions, enhancing efficiency.
- Utilized AWS, K8S with K9S, Terraform, Jenkins, and other tools to manage SDDC, tokens, and more for VMware GovCloud on AWS.
- Collaborated with cross-functional teams to enhance CLI access to APIs like JIRA, Slack, and Jenkins, optimizing workflow.

Common Tasks

Onboarding of Government Agencies and other contracts, from DOJ, Army, Navy, et cetera. Supported the migration of bash calls to more modern Pythonic modules to address each component of onboarding.

In addition, manage K8S blue/green deployments for high-risk Infrastructure, push K8S micos-service deployments, manage images, monitor pods, logs and write custom code to house Jenkins output and attach to tickets to ensure successful log tracking.

Oracle

7 years 1 month

Site Reliability Engineer 5

December 2021 - April 2022 (5 months)

Remote

- Led the US FedRAMP SaaS Implementation program for 1 application residing in AWS to be migrated to OCI; ensuring compliance with US government standards for upcoming OCI US government & DoD realms.
- Developed automation services to enhance operational efficiency by eliminating manual workflows. These automated workflows consisted mainly of Ansible, and custom bash code.
- Architected CI/CD pipelines for a standardized, adaptable system in a dynamic infrastructure. Jenkins was the primary CI/CD tool of choice.

Principal Software Engineer

July 2021 - December 2021 (6 months)

Remote

- Supported multiple services and features within OCI through automation and operational efficiency.
- Developed a suite of tools to navigate OCI infrastructure, creating a basic framework to automate tasks outside of Shepherd and Terraform.
- Enabled users to toggle tenancies and regions, simplifying environment management and streamlining operational and deployment tasks.
- Achieved a major milestone by consolidating automation into a single intuitive CLI, enhancing user efficiency.
- Utilized OCI CLI and Python SDK to dynamically pull information and perform routine operations.
- Designed a database driven APAX solution to capture information and improve the single pane of glass for LA tenancy

Principal DevOps Engineer - Oracle Management Cloud

September 2018 - December 2021 (3 years 4 months)

Remote

- Managed the LA Log Analytics platform with a fully automated, DevOps-driven approach.
- Designed innovative solutions to support the expanding needs of the LA customer base, collaborating with team members and cross-functional teams.
- Co-developed the OMC DevOps as a Service application, integrating SSO for secure access and enabling development teams to pull information on-demand.

Senior System Administrator, Public Sector Cloud

April 2015 - September 2018 (3 years 6 months)

Remote

- Key contributor in Oracle's FedRAMP efforts, focused on automation and project leadership. Led a team of 6 engineers to achieve Oracle SaaS FedRAMP accreditation, with PaaS accreditation as the next goal.
- Designed and maintained a comprehensive patching lifecycle to meet and uphold FedRAMP standards, using bash scripts on NFS shares and custom Python modules executed from bastion systems.
- Developed a complete firmware upgrade process for over 35,000 Oracle/Sun ILOM systems within Oracle Cloud, receiving the PDIT award twice for both technical and project leadership.

United Airlines

Senior Virtualization Engineer

December 2014 - April 2015 (5 months)

Greater Chicago Area

- Managed United Airlines' VMWARE 5.5 infrastructure, resolving ESX networking issues and offline storage problems.
- Analyzed and filtered logs for common errors, ensuring seamless operation of the virtualization environment.
- Collaborated with cross-functional teams to implement bundled software for efficient management of VMWARE infrastructure at United Airlines.

Red Hat

Senior Platform Consultant

January 2014 - December 2014 (1 year)

Greater Chicago Area

1. Established key technologies in the Red Hat portfolio, including Satellite 5/6, RDS 9/10, GFS, Gluster Storage, RHEV, and Red Hat OpenStack.
2. Led the Home Depot central security project, specializing in SELinux, AIDE, and customizing the installation of CyberArk on-site in Atlanta.
3. Acted as the primary Red Hat Satellite consultant for Bechtel, installing one Satellite server and four Satellite Proxy servers on-site in Reston, VA.
4. Completed the Satellite infrastructure build-out and upgrades for EHealth Ontario, including the installation of a new RHEL6 base OS and migration from Oracle to embedded PostgreSQL.
5. Organized key design meetings and managed the custom architecture of clients' virtual environments, ensuring tailored infrastructure solutions.

United Airlines
Senior Linux Engineer
October 2012 - January 2014 (1 year 4 months)

ACTIV Financial Systems, Inc.
Senior Linux Engineer
October 2011 - October 2012 (1 year 1 month)

Federal Reserve Bank of Chicago
Redhat Linux Consultant
May 2011 - October 2011 (6 months)
230 S. LaSalle St.

Self Employed
Senior Consultant
December 2005 - April 2011 (5 years 5 months)
Greater Chicago Area

Experian
Senior Unix System Administrator
December 2004 - December 2005 (1 year 1 month)
Schaumburg, IL

UScellular
Unix Administrator / Technical Staff
August 2001 - December 2004 (3 years 5 months)
Bensenville, IL

US Navy
Radioman
August 1997 - August 2001 (4 years 1 month)
Yokosuka, Kanagawa, Japan

Education

Robert Morris College
Associate Degree of Applied Science, Computer Networking · (2002 - 2004)