

PRAJWAL A P



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PROFESSIONAL SUMMARY

- DevOps professional with **4+ years** of experience designing, building, and deploying scalable and reliable applications.
- Recognized for expertise in **Kubernetes**, having completed the **Certified Kubernetes Administrator** exam.
- **AWS Certified Solutions Architect - Associate** | Skilled in architecting robust and cost-optimized AWS solutions.
- Proficient in **Python**, I leverage scripting and automation to streamline processes and enhance overall system performance.
- Possesses strong technical skills in CI/CD pipelines, infrastructure automation, continuous monitoring, and performance optimization.
- Seeking a challenging opportunity to leverage expertise and contribute to a growth-oriented team.

SKILLS

Container Technologies: Kubernetes, Docker

Configuration Management: SaltStack, Ansible

Infrastructure as Code: Terraform

CI/CD: GitHub Actions, Jenkins, ArgoCD

Secret Management: Hashicorp Vault

OS Platforms: Ubuntu, CentOS, Alma Linux, Windows

Service Discovery: Hashicorp Consul, Istio

Database: MySQL, InfluxDB, MongoDB

Cloud Technologies: AWS

Scripting: Python, Shell

Version Control System: Git, GitHub, GitLab, BitBucket

Provisioning Tools: Packer, Vagrant

Monitoring: Prometheus, Grafana, LogicMonitor

Log Management: Splunk, CloudWatch

Web Frameworks: Flask, NodeJS

Project: Consul, Jira, Confluence, PagerDuty, Slack

PROFESSIONAL EXPERIENCE

INFOR NEXUS - A leading global supply chain management platform

June, 2024 - Present

Role: Cloud System Administrator (DevOps)

Tools/Technologies: Terraform, Python, Shell Script, Consul, Vault, Docker, Jenkins, Saltstack, Alma Linux, Cent OS, RHEL, Packer, LogicMonitor, Splunk, AWS services (VPC, EC2, ASG, CloudWatch, CodeDeploy, S3, Route 53, ECS, Lambda, Systems Manager)

- Migrated **on-premise servers** to **AWS EC2** using **Terraform** and leveraged **SaltStack** for machine bootstrapping.
- Developed multiple **Terraform modules** to streamline and customize the **provisioning** of various **AWS resources**.
- Contributed to the deployment of a new **AWS** environment for a **batch processing application**, including planning and configuring **EC2, Spot EC2 ASG, On-Demand EC2 ASG, and EBS volumes**.
- Migrated **on-premises production servers** from **CentOS** to **AlmaLinux** using **Terraform**, demonstrating proficiency in infrastructure automation and OS migration.
- Participated in a **12x7 on-call rotation**, promptly addressing **production issues** to ensure **service uptime** and adherence to **SLA/SLO** commitments
- Automated the resolution of various **system events** using **Salt Beacons and Reactors**, including service status monitoring, system load management, memory usage, and disk usage.
- Managed and contributed to **Jenkins pipelines** for **automated code patching** and **application deployments**.
- Developed and implemented **SaltStack configurations** for multiple applications, demonstrating proficiency in **infrastructure automation** and **configuration management**.

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- Implemented **CIS benchmarks** on **AlmaLinux 9** to enhance **system security posture** and achieve **compliance objectives**.
 - Monitored **production servers** and their resources using **LogicMonitor** for **proactive performance analysis and issue resolution**.
 - Recommended and implemented image customization tools for servers, streamlining system provisioning and improving operational efficiency.
 - Developed custom scripts for automated backups of critical Jenkins configuration files, ensuring data integrity and disaster recovery.

CBNITS - A premier Enterprise Solution & IT service provider

Jan, 2022 - May, 2024

Role: Cloud Engineer

Tools/Technologies: Python, Boto3, AWS, VPC, IAM, Bedrock, Generative AI, S3, Prowler, Squid proxy

- Contributed to the development of **Swift Security**, a unified **AI Security Platform** designed to protect **users, developers, and applications** across **public, private, and custom LLMs**.
- Crafted multiple **Python scripts** leveraging **Boto3** to conduct comprehensive **audits** of diverse **AWS cloud resources**.
- Conducted in-depth analysis on **AWS services** (e.g., **VPC, IAM, S3, Bedrock**) to identify suitable solutions for **cloud security tool functionalities**.
- Analyzed the **Copilot IDE** in-depth, leveraging a **proxy** to intercept traffic between the **IDE** and **Copilot server** for **PII redaction**.
- Used **Prowler** for the **security assessments** of **cloud infrastructure** and identify potential **vulnerabilities**.

Role: DevOps/SRE Engineer

Tools/Technologies: Python, Salt-stack, Shell script, Git, GitHub actions, Packer, Jira, Confluence, Vagrant

- Contributed as a team member within both **Systems Engineering** and **Site Reliability Engineering (SRE)** teams for a leading global **cloud security** firm.
- Implemented automation for customized image-building procedures across **Docker, Ubuntu, and OpenStack** platforms utilizing **HashiCorp Packer**.
- Migrated **Ansible playbooks** to **SaltStack states**, enhancing configuration management and automation efficiency.
- Ensured Proper Configuration in **Production Environment** Servers.
- Monitored Salt Minion Health with **Zabbix** and promptly addressed any arising issues.
- Developed **Python-based command-line tools** tailored for **Continuous Integration/Continuous Deployment (CI/CD)**, seamlessly integrated with **GitHub Actions**, enhancing the workflows.
- Automated **remote task executions** proficiently through the implementation of **Salt states, Python, and shell scripts**, improving operational efficiency and reducing manual intervention.
- Effectively manage and deploy **sensitive data**, ensuring **secure handling** during the deployment processes.
- Configured **virtual machine environments** using **Vagrant**, for reliable and reproducible development setups.

Tata Elxsi - A leading design and technology services provider

Nov, 2020 - Jan, 2022

Role: Software Engineer (DevOps)

Tools/Technology: Kubernetes, Kubeadm, Apache Kafka, InfluxDB, MySQL, Minikube, Docker, Python, Java, Shell script, Flask, Prometheus and Grafana

- Successfully configured and maintained **multi-node Kubernetes clusters** using **kubeadm** on diverse **Linux** machines, ensuring optimal performance and reliability.
 - Containerized multiple **Python-based** applications and crafted **manifest files**, facilitating seamless deployment within the **Kubernetes cluster**.
 - Developed a **Kafka Streams** application using the **Java API** to process **real-time data streams** from **EV batteries**.
 - Implemented **KEDA (Kubernetes Event-driven Auto-scaler)** to automate the **scaling** of applications.
 - Explored tools like **Helm** and **Istio** for **Kubernetes** to enhance the **deployment** process.
 - Generated **comprehensive documentation** covering diverse **Kubernetes** concepts.
 - Engineered a **Python application** with a **user interface** using **Tkinter**, dedicated to extracting CAN Signals and Frames data from a CAN dbc file to an Excel sheet, enhancing data visualization and analysis.
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CERTIFICATIONS

Certified Kubernetes Administrator (CKA) ([view](#))

Issued by: [The Linux Foundation](#)

AWS Certified Solutions Architect – Associate (SAA-C03) ([view](#))

Issued by: [Amazon Web Services Training and Certification](#)

WORK SAMPLES

Terraform Project - Saltstack environment using Terraform on AWS Cloud

GitHub link: [terraform-aws-saltstack](#)

Technologies used: AWS Services, Terraform, Saltstack

Python DevOps project - Publish Markdown files from GitHub to Confluence

GitHub link: [github-md-to-confluence-publisher](#)

Technologies used: Python, GitHub actions, Confluence API

DevSecOps project - Ekart app CI/CD Pipeline

GitHub link: [ekart-java-app-deployment-cicd](#)

Technologies used: AWS, Terraform, Docker, Kubernetes, Jenkins, Maven, Sonarqube, Prometheus, Grafana

EDUCATION

Bachelor of Engineering - Computer Science

Visvesvaraya Technological University

2016 - 2020

PERSONAL

Languages : English, Kannada, Hindi

Hobbies :

- Gardening
 - Playing piano
 - Cricket and Chess
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