

Dhruv Salwan

SYSTEMS ENGINEER · CLOUD

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Summary

Focused, efficient and reliable Software Engineer with experience in developing and debugging tools to provide secure and cost-efficient use of AWS Cloud. Diversified skill sets covering software development, agile methodology, automation and user support. Excellent interpersonal, phone and digital communication skills.

Skills

Programming	Python, Java(Basic), JSON, YAML, HTML5, Markdown, LaTeX
SDK and Frameworks	Boto3, Jinja2, Jekyll
Cloud	AWS(Elastic Container Services, EC2, EBS, S3, ELB, CloudFormation, Lambda), Terraform(Basic)
Operating Systems	Linux, MacOS, Windows
Tools	Git, GitHub, Docker, Jenkins, PyCharm, Atom, Wordpress
Monitoring and Tracking	ElasticSearch, Confluence, JIRA, PagerDuty, Datadog, HealthCheck, Sentry

Work Experience

Client-FINRA

Rockville, Maryland

SYSTEMS ENGINEER

May 2018 - Present

EMPLOYER: ARTECH INFORMATION SYSTEMS(MAY 2018 - PRESENT)

- Utilize specialized knowledge of Configuration Management tools like Puppet and Ansible, to identify and track individual configuration items, improve visibility and tracking across fleet of resources in AWS Cloud Infrastructure, hence enhancing system reliability.
- Write object oriented, time-space efficient and modularized Python code displaying strong experience and grasp of computer programming ethics by using well architected open source libraries and documenting code paradigms to automate infrastructure deployment, inject web-hooks, auto-render manual code snippets, and enhance logging and monitoring.
- Lead architecting solution for managing several accounts in AWS(Amazon Web Services) cloud by ensuring real time compliance to Company's policies, cost management via garbage collection of unused resources; Deploy resources in Cloud using CloudFormation scripts containing Dockerized Images and Containers in the form of Task and Service definitions, EC2(Elastic Compute Cloud) and IAM(Identity Access and Management) Credentials, Elastic Compute Clusters(ECS), Serverless Lambda and AWS CLI(Command Line) and API(Application Programming Interface) deployment.
- Design and develop automated solutions for distributed Linux/Unix server deployment and management by exploring and examining Artifact and Binary Repositories such as Artifactory, Nexus, performing load and performance testing using open source testing platform such as JMeter and in-house deployment tools, hence utilizing analyzed data to create effective and robust solutions.
- Streamline code and deployment pipeline by using Continuous Integration tools like Jenkins (JenkinsFile in Groovy/ MakeFile), integrated with JIRA agile development, accompanied with version control systems like BitBucket and documentation support on Confluence.
- Integrate ChatOps in the deployment and infrastructure pipeline using Slack customized notifications.

Client-CapitalOne

McLean, Virginia

SYSTEMS ENGINEER

Oct. 2016 - April 2018

EMPLOYERS: ARTECH INFORMATION SYSTEMS(OCT 2017-APRIL 2018), CORE SOFTWARE TECHNOLOGIES(APRIL 2017-OCT 2017),

MAGNUS TECHNOLOGY SOLUTIONS(OCT 2016-MARCH 2017)

- Centralized Cloud Custodian policy development at the Enterprise level to achieve consistency, security and cost-effectiveness in AWS Cloud Infrastructure.
- Develop, test and maintain functionalities in Cloud Custodian to support encryption, tagging, backups, off-hours, network security for all services in AWS Cloud.
- Develop backend for Cloud Custodian Dashboard consuming data from SQS and indexing in Elasticsearch using Python Elasticsearch API.
- Maintain clear and up-to-date documentation for Internal Cloud Custodian policies using GitHub Pages.
- Design effective Jinja2 templates to notify and educate end users to safely use AWS Infrastructure.
- Deploy Jenkins jobs to enable push button deployment of Docker Images to keep infrastructure synced with new updates.
- Deploy new Services like Sentry Error Tracking in AWS Elastic Container Services using CloudFormation Task and Service Definitions, ECS Clusters and Custom Docker images.
- Fix bugs reported by contributors on the Public Github Repository, communicate on the Issues on Public Github, peer review Code in the Pull Requests on Public and Private Repositories, actively participate on Project's Gitter conversations
- Monitor status of application by following on-call rotations using PagerDuty, involve Technical Operations to work with other teams during rotations.
- Train and Develop new associates on using CapitalOne open source projects, underlying infrastructure and team culture.
- Actively participate in Agile meetings like PI Planning, Retrospective, Daily standups and Deep Dive sessions, to effectively work with the team and complete assigned tasks.
- Provide email and phone support to other Software Engineers about securely and efficiently using AWS Infrastructure.

Kamla Hotels

Downey, California

NETWORK ENGINEER INTERN

May 2015 - Aug. 2015

- Analyzed and fixed complex software and hardware matters of significance pertaining to networking connectivity issues.
- Checked with user guides, technical manuals to find solutions and develop skills in testing network topologies.
- Installed and repaired routers and switches by referring to Manufacturer's handbook, install softwares onto new PCs, Laptops or Phones to help onboard new employees.
- Optimized search results for Company's chain of Hotels by using Search Engine Optimization, implemented by posting articles and blogs containing specific keywords.

California State University, Long Beach

Long Beach, California

STUDENT DESKTOP SUPPORT

Feb 2015 - May 2016

- Installed, repaired, replaced and upgraded IT equipment including PCs, Laptops and Printers.
- Held sessions on MS Office, Windows tutorials and University's custom tools and databases for end users in multiple departments.
- Collected, systemized and recorded problem and solution logs.
- Provided ongoing support to users regarding systems and networks.

Certifications

AWS Certified Developer- Associate

Nov. 2017

Cisco Certified Network Associate

July. 2015

Education

California State University

Long Beach, California

MASTER OF COMPUTER SCIENCE

Aug. 2014 - May. 2016

Kurukshetra University

Kurukshetra, India

BACHELORS OF TECHNOLOGY IN COMPUTER SCIENCE

Aug. 2010 - May. 2014

Personal Projects

Perfect-CV

Sep. 2017

WWW.GITHUB.COM/SALWANDHRUVDEV/PERFECT-CV

- This resume is the output of Perfect-CV.

Terminal Customization

July. 2017

WWW.GITHUB.COM/SALWANDHRUVDEV/TERMINAL_CUSTOMIZATION

- Customize Mac Terminal and developed script which configures z-shell, Oh-My-Zsh, iTerm2, to make the settings portable.

SafeDrive

Jan. 2016

ACADEMIC PROJECT - ANDROID APPLICATIONS

- An Android application which used Accelerometer and Orientation sensor readings to detect if a driver is drunk. Features included Google Maps and implemented algorithm from an IEEE paper.

Proxyed

Sep. 2015

ACADEMIC PROJECT - CRYPTOGRAPHY

- A Java application which allowed secure transfer of data between Client and Server. Security features included AES-256, HMAC and RSA algorithms.