Janak Shrestha

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Educations	M.Sc. Information & Communication Engineering (THM, Friedberg, Germany), B.Eng. Electronic & Communication Engineer (Nepal)
Certifications	CKA, CKAD, RHCE, RHCSA, CCNP, CCNAS, CCNA, Oracle Database 11g Administrator
Languages	English, German, Nepalese

09/20 - Present   Senior Site Reliability Engineer

Unzer GmbH, Heidelberg

- Plan, build and deliver of various new projects
- Write standard operating procedure (SOP)
- Develop the process improvements to automate and streamline the build processes wherever possible
- Consolidate different CI/CD tools, registry, SCM, code review tool to enhance security, visibility and reduce the operational overhead
- Provision AWS cloud infrastructure through terraform code
- Create re-usable kubernetes terraform module for deploying the Amazon Elastic Kubernetes Service (EKS) cluster for sandbox, dev, int, test & production environment
- Roll out new microservices in Kubernetes
- Set up Datadog APM via terraform along with agent integration
- Migrate on-premises monolithic services to microservices in EKS
- Create helm chart for microservices
- Implement OpenSearch central logging solution with Fluentd integration
- Patch system
- Perform On Call Duty to provide production support using the Opsgenie
- Handle incidents, problem investigation & root cause analysis
- Deploy and release applications with helm chart from Argo CD
- Create and troubleshot service failures, configuration issues & CI/CD pipelines
- Collaborate with Dev and cloud engineer teams to solve the technical and design problem
- Set up repository manager – Nexus, ECR
- Set up PCI-DSS standard compliance infrastructure

01/20 - 08/20   Site Reliability Engineer

Wirecard Issuing Technologies GmbH, Aschheim

- Provide the recommendations on architectural changes in order improve the efficiency, reliability and performance and reduce the cost
- Automate of toil operational task
- Plan, build and deliver various projects

09/18-12/19   **Application Engineer**

Wirecard Issuing Technologies GmbH, Aschheim

- Work in digital banking payment system for Card Issuing
- Perform DevOps operation
- L3 Support
- Participate in weekly on-call rotation to provide production support
- Certificate management
- Security patching
- Prepare SOP documentation in confluence
- Provision & manage application for 500+ Linux VMs in private data center & 200+ EC2 in AWS for QA, Test & Prod environment
- Provisioning, configuring, troubleshooting & managing 60+ applications in private data center and 40+ applications in AWS
- Configure spring boot, tomcat, weblogic server
- Shell Scripting for Control-M jobs
- Application releases & bug fixing with developer
- Configuring checks & proactively monitoring applications via Checkmk & Datadog
- Handling incidents, problem investigation & root cause analysis
- Backup and archiving of logs
- Configuring high availability Apache load balancer and rewrite rule
- Creating various daily banking report jobs based on SQL
- Daily operation for DDL & DML with PL/SQL statement

02/17 - 06/18   **System Administrator / Modem Test Engineer**

Qualcomm CDMA Technologies GmbH, Sulzbach (Taunus)

- Working on KPI management for modem
- Creating bash scripts
- Working with Senior Engineer for modem field test and IMS functional test
- Executing and analyzing IMS functional test scope focused on modem
- Performing Field Test at various telecom infrastructure vendor (Ericsson, Huawei, Nokia) in Europe for GSM, GPRS, EDGE, UMTS, HSDPA, HSUPA, HSPA+, LTE, LTE-A Technologies
- Performing fast regression test, feature test, product development test, field stability test
- Analyzing logs with Qualcomm tools and report writing
- Working with Qualcomm tools – QXDM, APEX, QPST, KPI
- Mobile device preparation – flashing mobile device, software upgrade and calibration

01/16 - 01/17   **Master Thesis and Internship**

Huawei European Research Center, München

- Python programming to enhance Software Defined Networking (SDN) emulator-Mininet
- Enhancing Open-Source project Mininet written in Python
- Enabling data plane nodes by deploying Docker Containers across Network topology in Mininet
- Emulate Docker container as Open vSwitch to enable Network Function (NF) placement and SDN controller node
- Creating Docker Image
- Establishing networking between docker containers deployed in different physical servers using SSH Layer-2 tunnel

03/13 - 08/14   **System Administrator**

Websurfer Nepal Communication System Pvt. Ltd., Kathmandu (Nepal)

- Configuration, installation, optimization, patching & troubleshooting of RHEL and CentOS servers - DNS, Apache, Mail, MySQL Database, LDAP, File server
- Creating Backup and Logging solution
- Configuring firewall
- KVM-Virtualization of servers
- Implementation of network monitoring applications - MRTG, Cacti, Nagios & OpenNMS
- Shell scripting

Key Skills

Cloud: AWS

Operating Systems: RHEL, CentOS, Ubuntu

Web Server: Apache

Container orchestration: Kubernetes, Docker

IaC: Terraform, Ansible, Puppet

CI/CD & GitOps: Argo CD, Jenkins, Bamboo, Github Actions, Gitlab CI

SCM: Gitlab, Github

Scripting: Bash, Python

Monitoring/Metrics: Datadog, Checkmk

Logging: OpenSearch, ELK

DB: Oracle, MySQL