

Deepankur Singh Baliyan

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EXPERIENCE

ATVENU INC, CALGARY (CANADA)

Apr'21 — Present

DevOps Engineer

- Maintaining the whole Infrastructure via IAC comprising of AWS EC2, API Gateway, Lambda, S3, ECS, and CouchDB.
- Migrated Heroku Data Workloads to AWS cloud.
- Setting up Logging Infrastructure via AWS Kinesis streams, and Coralogix.
- Developed multiple GH actions for building Docker images, generating network diagrams.
- Implemented a system to detect unauthorized service access for AWS.

INFRA-CLOUD TECHNOLOGIES, PUNE (INDIA)

Jan'21 — Mar'22

Site Reliability Engineer

- Developed internal tool for subnet-visualization with python to assist the network allocation of a cloud platform.
- Developed Atlassian Automation library for internal tooling to automate the process of on-boarding of new clients.
- Developed terraform code for deploying a complex ECS based application stack on AWS consisting of ECS, ALB, EFS, RDS, Kafka.
- Training on Prometheus and Kubernetes.
- Developed a POC for custom deployment of Prometheus and Grafana using tools Helm, Terraform, and GCP.
- Contributed in the open source project of virtual Cluster & kbrew.
- Developed a multi-tenant solution for Kubernetes via different ways like using virtual cluster and Project HNC.
- Supported RedHat Openshift platform for an American wholesale corporation.
- Automated Security policy enforcement in AWS using Boto3 library.
- Automated the process of deploying Rancher to manage multiple Kubernetes clusters.
- Helped in recruitment by conducting interviews for new joiners.

HCL TECHNOLOGIES, Noida (India)

Aug'18 — Dec'20

Cloud Developer (Cloud Management and Automation practice team)

- Developed private and public cloud infrastructure automation for clients using vRealize Orchestrator(vRO) and vRealize Automation(vRA).
- Developed end to end machine provisioning use cases (both infrastructure and application specific) through customized XaaS forms using vRealize Automation
- Hands-on experience of integrating vRO with third party systems like ServiceNOW, Qualys, Jenkins, Active directory.
- Developed automation runbooks for auto resolving of common occurring ServiceNOW tickets in client environments.
- Created an automated application delivery pipeline using Containers and Container Orchestration tools (Kubernetes, Pivotal Container Services(PKS), Amazon ECS).
- Hands on experience in migrating containers from private cloud to public cloud.
- Implemented a VMware vRealize Suite based proof of concept to provide Container as Service in an automated fashion through vRealize Orchestrator scripts.

EDUCATION

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES (UPES, DEHRADUN)

Jul'14 — Jun'18

B.Tech. Computer Science & Engineering with Specialization in Telecom Informatics

- GPA: 3.03/4
- Major-I project titled *Data Mining over Ontology-based Semantic Web Crawler* was recognized by the Computer Science department.
- Coursework: Data Structures & Algorithms, Computer Systems Architecture, DBMS, Operating Systems, Theory of Automata, Managerial Economics, Mathematical Logic, Computer Networks, Entrepreneurship & Product Development.

TECHNICAL SKILLS

- Programming Languages: Go, Python.
- Software: vRealize Automation, vRealize Orchestrator, Kubernetes, PKS, Amazon ECS, Prometheus, Helm, Rancher, Docker, Terraform and Coralogix.
- Cloud Platforms: AWS, GCP, VMware vSphere
- Scripting Languages: Bash, PowerShell and JavaScript.
- Administration: Linux (CentOS, RHEL).

PUBLICATIONS

- Blog post on [Prometheus starting guide](#) has been mentioned in the [kubeweekly](#) of Cloud Native Computing Foundation.
- Blog post on [Prometheus query language](#) has been mentioned in the [kubeweekly](#) of Cloud Native Computing Foundation.
- Wrote a blog post on the [multi-tenant](#) solution in Kubernetes.

TRAININGS UNDERTAKEN

- VMware vRealize Automation: Install, Configure and Manage [V7.0] by VMware Education Services.
- Attended an in-house workshop on development using Terraform organized by HCL.
- Kodecloud Course for Certified Kubernetes Administrator.

CERTIFICATIONS

- VTSP-MA (VMware Technical Sales Professional in Cloud Management and Automation) certified by VMware Education Services.
- 8 band score in the english proficiency test IELTS

OTHER INVOLVEMENTS & PERSONAL PROJECTS

- Built a resume website using jekyll which can be visited at <https://deepankur797.github.io>
- Built a Custom Covid Vaccination center finder using Rest API and Python.
- Developed [bash scripts](#) to automate the process of mysql replication.
- Developed a basic [Tetris Game](#) and deployed the same using [terraform](#).
- Part of a three-member team that represented UPES at ACM-ICPC Asia Amritapuri regionals round.
- Was a student placement representative (SPR) at UPES. Handled the mediation process between prospective recruiters and UPES placement committee.