RAHUL BALI

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Dynamic and creative software engineer with four years of experience in producing robust code for customers across globe. Eager to accelerate the development at your organization with top-notch architecture, code design skills.

SKILLS

Languages: Python, Golang, Typescript(Angular), SQL, Bash, PowerShell
Technologies: Kubernetes, Ansible, Docker, Jenkins, Linux, Azure, Google Cloud Platform(GCP)
                   Terraform, vRealize Orchestrator, vRealize Automation, Scalr CMP, VMware vSphere

EXPERIENCE

Google   **Technical Solutions Consultant II**   **May 2021 - Present**
- Engineering at Data Center Transformation(CoE) on GCP Migration Analytics platform, developed in internally using Python and Angular.

Hewlett Packard Enterprise   **DevOps/Software Engineer II**   **Jan 2021 - Apr 2021**
- Member of Data Science and MLOps Team working to improve the internal Storage Products using MAPR storage layer.
- Worked on Kubernetes and EFK monitoring stack, managing resources, handling security and access to different teams.
- Deployed end-to-end Production Docker open source registry (Harbor), highly useful for managing, creating and storing docker images as a central registry for multiple teams.

HCL Technologies Ltd, Noida   **Cloud Automation Engineer**   **Aug 2018 - Dec 2020**
- Picked up Scalr Cloud Management Platform in 15 days, started the work on developing DevOps Automation POC which later made into full blown Production of Unilever, reducing 45 days of server provisioning time to just 45 mins.
- Streamlined the Automation process for 8 different technology teams; cutting time and human effort by resolving more than 3000 tickets per month.
- Utilized PowerShell and vRealize Orchestrator to automate the processes such as migration of VM to cloud providers, push network configurations, apply patches to the standard set of servers monthly, remediate vCenter failures using automated fix deployment in production.
- Deployed high availability failover cluster for VMware vRealize Orchestrator with mssql cluster.
- Designed and enhanced the VMware Orchestrator workflows with SOAP and REST API integration for Automating Infrastructure. Authored documentation for design and data flow.

Punjab Engineering College, Chandigarh   **Research Assistant**   **Jul 2016 - Jul 2018**
- Research in the field of Recommender Systems(ML) and conceived a thesis.

Click Labs Pvt. Ltd, Chandigarh   **Android Developer Intern**   **Jan 2015 - Jul 2015**
- Worked on prototypes for Jugnoo app. Created alternate designs based on maps for food ordering section.

EDUCATION

Punjab Engineering College, Chandigarh   **Master of Technology**   **July 2016 - July 2018**
"Modeling Product Ratings and Reviews using Latent Factors to provide Recommendations using Amazon reviews data set".
<u>Courses</u> Advanced Algorithms, Neural Networks, Fuzzy Logic, Evolutionary Computation.

PROJECTS

GCP Migration Assessment   *Google*
Tech: Borg, Google Cloud Platform, Spanner, Python, Protocol Buffers
Customer comes with their own metadata about data center estate to the pre-sales team at GCP, platform takes the data and provides standardised reports and dashboards about the customer data center for better understanding of the customer's estate. Portal provides the actionable recommendations and customers' estate view in terms GCP products and its pricing. Added feature to create the resource planning report, which lets the customers' know about the timeline, efforts and actual resources required to do the migration.

Prometheus/Grafana Observability   *Hewlett-Packard Enterprise*
Tech: Kubernetes, Prometheus, Grafana, MongoDB
Made a monitoring solution for monitoring MongoDB by creating Custom Resource of Service Monitor, Daemonsets in Kubernetes. This implementation is done using the Helm Chart for Prometheus.

AWS Infrastructure Provisioning   *Personal*
Tech: Terraform, AWS, Linode, TLS provider
Using HashiCorp Language, created EC2 machines, Security Groups, NAT gateway, internet gateway, route tables, VPC, private/public sub-nets and ALB/NLB Load Balancer. Created special setup Network File System(NFS), Kubernetes cluster, Jenkins build server, Ansible master, etc. Created Migration setup to move containers from On-Prem to AWS ECS service.

Backend for Doctor-Patient Application   *Non Govt. Organisation*
Tech: Flask, SQL-Alchemy, Python, PostgreSQL
API was developed as a generic back-end for a doctor-patient application. This implementation included authentication, video calling components using Jitsi server, and scheduling the meeting. EDIT: recently remade it using Typescript, Nodejs, Fastify, TypeORM and Postgres

Cloud Infrastructure Automation   *Stanley Black & Decker*
Tech: vRealize Automation, VMware vSphere, JavaScript, PowerShell, Bash
Configuring vRealize Endpoints, Fabric groups, Reservations, Reservation Policies, Approval policies, Blueprints, Entitlements and Services. Designing VMWare vRealize Orchestrator workflows for automating file share access requests

Infrastructure Provisioning/Deprovisioning   *Unilever*
Tech: Scalr CMP, Azure, AWS, Python
Created a user experience to provision a Virtual Machine from a BMC Remedy request. VM contains Unilever Standard build policies, installed required software, Active Directory Domain joined, SCOM Monitoring enabled, Patching enabled. Later also, drafted and implemented a complete End to End Deprovisioning flow with all components removed and uninstalled. This included Azure, AWS disks, snapshots, etc. Also, scripted various API integration using Python's requests module.

CERTIFICATES
Architecting with Google Compute Engine Specialization
Networking in Google Cloud Specialization
Architecting with Google Kubernetes Engine: Foundations
VMware Technical Sales Professional - Management Automation