

SKILLS

Python, Go, Typescript, SQL, Bash, PowerShell, Terraform, Docker, Kubernetes, Angular.

EXPERIENCE

Google	Technical Solutions Consultant II	May 2021 - Present
<ul style="list-style-type: none">Developed and integrated microservices APIs on a Python-based backend for the GCP Migration Analytics platform, augmenting scalability by 20%.Developed a data visualization dashboard that provided key performance indicators (KPIs) to executives, leading to a 7% increase in efficiency in cloud delivery with more than 150 managers.Successfully developed an internal-facing platform using Golang and TypeScript resulting in a 10% improvement in cloud delivery business methodology.Developed a data pipeline that processes crucial cloud delivery data, enabling real-time insights into customer behavior, client work and staffing operations.Possesses extensive experience in full-stack development using Go, TypeScript, and Angular to craft web applications.Architected RESTful APIs adhering to industry standards and business requirements with API design patterns.Implemented RPC web calls with Protocol Buffers and a framework called Goa.Worked on the Delivery Governance system, which serves managers and people leads to organize and measure the success of cloud projects.Contributed to Borg for Google Infrastructure, a critical system that provides a comprehensive overview of jobs, operational status, zones, logs, etc. using Angular.Became Typescript Readability mentor, provided sessions and code reviews for Typescript to improve overall code quality at Google.		
Hewlett Packard Enterprise	DevOps/Software Engineer II	Jan 2021 - Apr 2021
<ul style="list-style-type: none">Member of Data Science and MLOps Team for Storage Products using MAPR, python, ansible.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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Research in the field of Recommender Systems(ML) and conceived a thesis.		

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". Courses Advanced Algorithms, Neural Networks, Fuzzy Logic, Evolutionary Computation.		

PROJECTS

Delivery Governance, Cloud Services	Google
Tech: Borg, Spanner, Go, Typescript, Protocol Buffers	

This software helps analyze client data about project deliveries and creates a track record of week-wise data. Software generates reports with chronologically organized data. This allows users to look back in time for data about a specific project. It has been widely adopted, with over 250 users and 100 reports generated and 70+ emails sent per month. The software automates manual analysis, reducing the time required to analyze and report data on the dashboard from 1 week to 15 minutes.

GCP Migration Assessment

Google

Tech: Borg, Google Cloud Platform, Spanner, Python, Protocol Buffers

Customers provide data center metadata to GCP pre-sales. The platform generates reports, dashboards, recommendations, and a resource planning report to help customers understand their estate and plan their migration to GCP.

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