Toronto, Ontario
647-648-5605

Manveer Bhullar

manveersb@gmail.com
ManveerBhullar.com

Intro

Cloud Engineer with experience in AWS and GCP platforms. Skilled in automating cloud operations using Terraform, Kubernetes, and CI/CD pipelines (Jenkins, Drone, ArgoCD). Proven track record in deploying scalable, secure cloud infrastructures and optimizing cloud-based workflows. Enjoy writing in Golang, Python and shell scripting. Passionate about leveraging cloud technologies to drive efficiency and innovation in software development processes. In my personal time, I enjoy snowboarding, reading, and playing with new technology such as LLMs and AI.

Skills

- **AWS**: API Gateway, Cloudfront, EBS, EC2, IAM, Inspector, KMS, Lambda, RDS, Route 53, S3, Secrets Manager, Snowball, SNS, SQS, VPC
- **GCP**: GCE, GKE, GCS, GAR, GCR, Cloud Logging, Secret Manager
- **Languages**: Python, Golang, JavaScript, Typescript, Bash, SQL, HTML, CSS
- **Containerization & Orchestration**: Kubernetes, Docker, Helm, Terraform, Tilt
- **CI/CD & Automation**: Jenkins, Octopus Deploy, Github Actions, Drone (Harness), ArgoCD, Vercel
- **Infrastructure as Code**: Terraform, Packer, Ansible, Cloudformation
- **Monitoring & Alerting**: Datadog, Pagerduty, Runscope, Graphite
- **Version Control**: Git, Mercurial
- **Miscellaneous**: Minio, Wiremock, Astro, TailwindCSS, NPM, DaisyUI

Work

Senior Cloud Engineer	Achievers	Jan 2022 – May 2023

Toronto, ON
- Implemented comprehensive CI/CD solutions at all stages, including script development, pipeline creation, infrastructure as code, and ongoing maintenance. Used tools like Terraform, Helm, Drone (Harness), and Github Actions to automate infrastructure provisioning, ensuring efficient, consistent, and scalable cloud deployments
- Led the integration of Tilt in our microservices, which allows us to mix development and cloud resources while also reducing deploy times for dev to near zero. This is achieved because tilt allows us to connect GKE resources to your local environment, lets devs do rapid iteration through live updating of running containers, and intregrates with our CI/CD to develop, test, and deploy in similar infrastructure.
- Implemented MinIO for GCS emulation by containerizing it with Docker, deploying it with Terraform and Helm, and integrating it with our appliciation and CI/CD pipelines.
- Maintained multiple Kubernetes clusters with Terraform while applying best practices in deploying, scaling, and troubleshooting containers with Docker, Helm and ArgoCD.
- Maintained detailed documentation, optimized configurations, and adhered to best practices when implementing services or tools
- Transitioned legacy monolithic application to a microservices architecture through containerization and modern CI/CD practices with zero downtime.
- Wrote Python and Bash scripts operational tasks, providing support to developers across Linux, MacOS, and Windows platforms. Also, contributed to internal tooling and libraries.
- Led migration from Google Container Registry to Google Artifact Registry by researching benefits, adapting our infrastructure and CI/CD accordingly implemented GKE Image Streaming and

Build and Release Engineer	Firmex	Aug 2017 – April 2021

Toronto, ON
- Responsible for increasing rate of deployments to production, maintaining build and deploy pipelines, improving product stability as part of the OnCall roster, ensuring SLA uptime, and implementing DevOps culture
- Orchestrated end-to-end CI/CD Pipelines using Jenkins and Octopus Deploy for efficient application delivery
- Served as release manager for the monolith core application, collaborating with stakeholders from multiple teams, defining processes, writing patch runbooks, and handling maintenance windows

- Supported move from local to hybrid infrastructure by building new pipelines, reviewing architecture, and provisioning resources in AWS. This includes managing EC2 instances, securing S3 buckets with KMS encryption, migrating data to S3 using Snowball, crafting secure IAM policies, managing databases in RDS, and writing Lambda functions.
- Led migration from graphite/graylog to Datadog, including; writing MVPs, presentations, right sizing, setting up dashboards, installing agents and tracers and communicating with Datadog techs
- Built monitoring dashboards, alerts, policies, and runbooks using Runscope, Seyren, Pagerduty, Datadog.
- Used Cloudformation to automate infrastructure for efficient, consistent, and scalable cloud deployments

Additional

Please visit **ManveerBhullar.com** to see my personal projects and blog posts.

- **ManveerBhullar.com:** Personal website built with Astro, TailwindCSS, and Typescript. Hosted on Vercel.
- **Capsule:** Golang CLI tool for sending and receiving files E2E using the Wormhole protocol with a BubbleTea TUI. Has theme support, animations. *WIP*
- **CYOA App:** Golang web application for playing Choose Your Own Adventure stories. Reads from file or from a database. Deployed to GKE and load tested using Locust (python)
- **PingTea:** CLI app written in Golang using the BubbleTea TUI library for pinging sites
- **Personal Media Automation:** Hybrid setup between homelab media automation using Plex and the *arr ecosystem, and helper tooling deployed onto GKE.

Education

Ontario	**Sheridan College**	**Sept 2015	Aug 2017**

- Advanced Diploma Software Development and Networking.