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Gunwant Jain

Software Engineer

Professional Experience

Skills

Site Reliability Engineering

Kubernetes, Nix, Terraform/Terragrunt, Ansible, ArgoCD, FluxCD, Helm, Kustomize, Prometheus, Loki, Grafana, New Relic, Containers (Docker, OCI, LXC), AWS, GCP

Operating Systems

Linux Kernel, AOSP (Android Open Source Project), Binutils, Make, CMake, Cross-Compilation

Databases

PostgreSQL, SQLite, MongoDB, S3/Minio, Redis/Elasticache, RabbitMQ, OpenZFS, BTRFS, Linux LVM

Networking and Protocols

Istio, HAProxy, Ambassador, Caddy, Traefik, BGP, DNS, IMAP, SMTP, TCP, UDP, ARP, WireGuard, OpenVPN, IPsec, SOCK5, IPinIP

Programming Languages

Go, Rust, C/C++, Python, Bash, Nix

Achievements

[Globalink Research Intern, Ecole Polytechnique de Montreal](#)
2022, MITACS

[First Position \(National Winner\), GRiD 3.0 Hackathon](#)
2021, Flipkart

[Google Summer of Code](#)
2020, Gentoo Foundation

Education

[Thapar University, Patiala](#)
Bachelor of Engineering
Computer Engineering

Platform Engineer (SDE 2), [Ola Krutrim](#)

Jan 2024 – Present

Kubernetes (Kubespray), Ansible, FluxCD, Cilium CNI, GPU Operator, Istio, Minio, Windmill, CVAT, PostgreSQL, MongoDB

- Led the infrastructure design and planning for the **Embodied AI** team, focusing on GPU compute, datastores, distributed microservices, and cross-team initiatives.
- Key participant in the migration of multiple teams' workloads from **Azure** to an **on-prem OpenStack** cloud within a **tight 7-day timeline**. Developed concurrent queue-based programs using **Rclone, Bash, and SQLite** to back up **petabytes** of data. Collaborated across **10+ teams**, providing scripts and technical leadership to ensure a smooth transition under challenging circumstances.
- Designed and deployed Kubernetes clusters on Openstack VMs using **Kubespray** and **HAProxy**. Implemented GitOps with **FluxCD** and **GitHub Actions**. Built observability stack with **Prometheus** and **Loki**, enabling rapid incident response for critical services
- Designed **terabyte-scale, fault-tolerant** sensor-data plumbing infrastructure for edge devices over disparate networks. Developed a highly **concurrent microservice** in **Golang** utilizing **MongoDB-based durable queues** for terabyte-scale data transfers. Used **Windmill** for workflow orchestration and internal dashboards
- Deployed and maintained multiple processes for our data annotation tool, including patching, charts, **postgreSQL tuning** and **disaster recovery** enabling **100+ concurrent annotators**
- Provided virtually partitioned and time-sliced **Nvidia A100 GPUs** access for ML engineers on **Kubeflow**
- Deployed and maintained a **25TB Minio tenant** on **Cinder CSI** backed storage, serving as the team's Data Lake

Site Reliability Engineer, [Dyte \(YC W21\)](#)

Jun 2022 – Jan 2024

Kubernetes (EKS, GKE), Terraform/Terragrunt, Golang, ArgoCD, AWS, GCP, Cast AI, Workload Identity Federation

- Maintained 20+ Kubernetes clusters across multiple continents on AWS and GCP as part of a 4-person SRE team working remotely
- Led production multi-region **EKS** and **GKE** upgrades from versions 1.24 to 1.27
- Integrated **Cast AI** with Kubernetes clusters, reducing cloud costs by **30%** through **binpacking, spot workload scheduling**, and intelligent resource limits
- Migrated recording backend from ECS to GKE, increasing scale capacity from **1000 to 8192 parallel recordings** and architected authentication flows for AWS workloads on GKE using **Workload Identity Federation** and **OIDC**
- Designed and developed **active monitoring probes** for high traffic services with AWS Lambda, EventBridge, and automated alerting via NewRelic, **decreasing our MTTD to < 1 minute**
- Created **Terraform modules** for cross-region VPC peering and designed multi-region staging environment with **EKS, GKE, AWS Aurora, Elasticache** and **RabbitMQ**

Voluntary Experience

[Flowdrive](#)

Oct 2020 - Present

Python, C++, LMDB, Cap'n Proto, ZeroMQ, Flask, AWS, Docker, SvelteKit, Golang, Android, Cross-Compilation

- Co-founded an open-source, cross-platform ADAS software for Android phones and SBCs serving 275+ vehicles
- Led systems and infrastructure optimization for **Android OS**, dealing with complex cross-compilation requirements, low-overhead utilities like **LMDB, Cap'n Proto, ZeroMQ**
- Developed **Flowinit**, a Python-based process manager for coordinating services on edge devices
- Built a **Flask backend** serving as SaaS backbone and **SvelteKit webapp** for user management
- Created a **Golang microservice** that converts telemetry data into **HLS video streams** for playback

[SharkbaitOS \(GSoC 2020 with Gentoo Foundation\)](#)

May 2020 - Sep 2020

Android Open Source Project, Linux Kernel, Gentoo, LXC, LLVM, C++

- Enhanced SharkBaitOS, integrating **Gentoo Linux** userspace between the kernel and Android environment
- Wrote **initramfs** in C++ to boot Gentoo on **System-as-Root Android** devices (Android 9+)
- Created **openrc** scripts for preparing the Android **LXC container** on Gentoo userspace
- Extended AOSP's **LLVM toolchain** by implementing an **AArch64** native build target

[Selfhosting on Homelab and Cloud](#)

Dec 2019 - Present

Kubernetes, Docker Compose, Caddy, Wireguard, Traefik, Let's Encrypt

- Encompasses three servers across multiple continents (**Hetzner, Oracle**, and an **HP Optiplex mini-tower**)
- Hosted 20+ cloud services. Currently migrating to **K3S** for platforming and **Nix** for IaC