

# Gunwant Jain

## Software Engineer

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As a software engineering graduate with over four years of experience, I am eager to explore different opportunities and utilize my skills. I have worked primarily in startup environments, which has allowed me to take on various responsibilities. I am particularly interested in roles related to SRE/DevOps as I enjoy self-hosting and maintaining my own systems.

### Experience

**Site Reliability Engineer (SRE)**  
Dyte (YC W21)

Jun 2022 - Present

Kubernetes, Terraform / Terragrunt, Golang, Helm, ArgoCD, AWS EKS, GCP GKE

- Maintained Deployte: Internal tool used to create personal testing environments on Kubernetes namespaces
- Optimized Deployte's initialization time by reducing it from 15 minutes to just 20 seconds.
- Brought up the company's Staging multi-region environment from scratch on AWS
- Successfully managed seamless upgrades of the Staging multi-region environment from Kubernetes version 1.22 to 1.24.

**Research Intern (MITACS)**  
Ecole Polytechnique de Montreal

Jun 2022 - Sep 2022

Ansible, Hadoop, Python, GCP

- Developed Ansible playbooks for setting up Multi-Cluster Hadoop on Google Cloud Platform
- Developed InjectErr: A simple python framework to inject errors while running HiBench workloads on Hadoop and collect the logs

**Student Developer (Google Summer of Code)**  
Gentoo Foundation

May 2020 - Sep 2020

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

- Improved SharkBaitOS: a Gentoo Linux userspace layer sandwiched between Linux and Android Userspace
- Extended SharkBaitOS's support to System-as-Root Android Devices (Android 9+)
- Extended AOSP's LLVM toolchain by introducing an AArch64 native build target
- Documented various Android concepts extensively in 4 of my blogs

### Projects

**Lead Contributor**  
Flowdrive

Oct 2020 - Present

Flowdrive is our collaborative project where we are developing easy to install software which brings Advanced-Driver-Assistance-System to every car. Our product runs natively on Mobile Phones (Android app), Desktops and small SBCs like Raspberry Pi and Jetson Nano

- Developed Flowinit: Flowpilot's init system written in Python, which runs and manages all the other daemons
- Developed the entire backend from scratch in Flask, which essentially acts as our SaaS backbone
- Developed Flicks: A SvelteKit webapp, used by our users to view their drives, change plans, etc.
- Developed Stitcher: A Golang microservice, used to convert users' drive data into DASH streams
- Scaled the Backend, Flicks and Stitcher to cater more than 100 users and 4,000+ hours of drive data
- Built our entire Infrastructure on AWS

**Creator**  
Bin

Jul 2020 - Present

Developed a self-hostable Pastebin in Rust which offers multiple ways to send files, and not just text

- Reduced the overall load times by ~375% (300ms to 80ms) by implementing caching
- Implemented a robust CI/CD pipeline utilizing Github Actions which parallelly yields statically linked binaries for x86 64 and aarch64
- Currently holds 128+ stars on Github

### Skills

Site Reliability Engineering

Web Development

Kubernetes

Flask

Terraform

Rust

Ansible

Flutter

ArgoCD

SvelteKit

Containers

Golang

AWS

Mobile App Development

GCP

Flutter

Operating Systems

Java

Linux Kernel

AOSP (Android Open Source Project)

### Education

Bachelor of Engineering, Computer Engineering  
Thapar University, Patiala

### Awards

Globalink Research Intern, Ecole Polytechnique de Montreal  
MITACS

National Winner (Information Security track), GRiD 3.0 Hackathon  
Flipkart

GSoC Scholar, Gentoo Foundation  
Google Summer of Code

Second Runner Up, HashHacks 4.0  
Cluster Innovation Centre, Delhi University

### Languages

English · Professional Proficiency  
Hindi · Native Speaker

### Links

[wantguns.dev](https://wantguns.dev)  
[github.com/wantguns](https://github.com/wantguns)  
[linkedin.com/in/gunwant-jain](https://linkedin.com/in/gunwant-jain)