

Vishesh Agrawal

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EXPERIENCE

DeepSource (YC W20)

June 2021 – Present

SRE II

Bangalore

- Migrate Spinnaker to ArgoCD for all internal services to achieve GitOps
- Hardened Kubernetes cluster for network egress blocking using nsjail, linux capabilities and kyverno
- Managed all infrastructure as sole member of the SRE team for a quarter
- Primary liason for DeepSource Enterprise Server installations and support in customer environments
- Maintained and debugged CI/CD pipelines in JenkinsX, Tekton, Ceph, GCP Cloud Build and Spinnaker
- Migrated primary production PostgreSQL database live without downtime
- Helped DeepSource achieve SOC2 compliance
- Migrated production cluster to GCP's Dataplane V2 with Velero live without downtime
- Maintained secrets management system with lease renewal and credential rotation patterns using Vault
- Automated local development setup of DeepSource's primary backend with Ansible
- Tailscale on Kubernetes as the primary internal VPN
- deepsource.io → deepsource.com
- Identified and upgraded all production kubernetes services to upgrade the production cluster to v1.22
- Audited, systemized and automated processes for provisioning GCP IAM requests
- Cloudfront caching DeepSource's static site assests
- Resolved container vulnerabilities reported by Vanta within SLAs
- Improved DeepSource Enterprise Server (TODO: Write this better)
- Integration Environment (TODO)
- Health Check Service (TODO)

SendX Inc.

January 2021 – June 2021

Backend/Devops Intern

Remote

- Setup monitoring for Sendpost.io from scratch using AWS, Ansible, Prometheus, Grafana and various exporters
- Wrote a wrapper to push necessary metrics from the backend to Prometheus in Golang
- Setup logging for Sendpost.io from scratch using Loki and Promtail

Major League Hacking

October 2020 – December 2020

Open Source Fellow

Remote

- Contributed to Kiwi TCMS to increase code coverage in Django
- Won the Halfway Hackthon, for project "mlh-township" in the "Best Community Project" category

PROJECTS

go-blender | *Golang*

September 2020

- Static Site Generator for awalvie.me

tengi | *ANSI C*

- A minimal shell written in C. The goal with the project was to learn how a UNIX shell works and communicates with process and system calls

sersim | *ANSI C*

- HTTP Server written in C to locally serve lyceum

EDUCATION

Bachelor or Technology

Jul. 2017 – May 2021

Nirma University

Ahmedabad, India

TECHNICAL SKILLS

Languages: Python, C, Golang, Bash

Technologies: GCP, AWS, Vault, ArgoCD, Spinnaker, RabbitMQ, Redis, Velero, Replicated, Kyverno, JenkinsX, Cloudflare

Tools: Kubernetes, Docker, Helm, Tailscale