Yash Mehrotra

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EDUCATION

Jaypee Institute of Information Technology
BTech in Computer Science & Engineering
2013-2017
Cum. GPA: 6.1 / 10

SKILLS

Languages
Python • Golang • JavaScript
Ruby • Rust

Frameworks
Django • Flask • Ruby on Rails
Express • Gin

Databases
PostgreSQL • MySQL • Elasticsearch
Redis

Tools
Vim • Zsh • Git • AWS • Docker
Kubernetes

EXPERIENCE

Lummo   Software Engineer: Platform & Infrastructure   *(Sep 2020 - present)*

- Migrated all the workloads from Heroku to GCP Kubernetes
- Built & managed the entire infrastructure using terraform and kubernetes
- Created a GitOps based workflow for the whole organisation on top of ArgoCD
- Added canary rollout functionality with automatic rollback on bad deployments
- Wrote a kubernetes controller to orchestrate spawnable developer environments
- Made an L7 aware sidecar proxy for rate-limiting, circuit-breaking & observability supporting gRPC & GraphQL with an overhead of less than 3ms

MindTickle   Software Engineer II: DevOps   *(Aug 2019 - Sep 2020)*

- Migrated the kubernetes cluster from kops to AWS EKS
- Added Linkerd service mesh for observability & networking performance
- Made a custom scheduler to equally distribute workloads across node groups
- Wrote a disaster recovery pipeline to recreate the production cluster in 30 minutes
- Added a GitOps flow to automate tool updates significantly reducing manual errors
- Built & open-sourced an operator tool to integrate AWS IAM with kubernetes roles

Grofers   Software Engineer   *(Feb 2017 - July 2019)*

- Worked on the Search & Discovery backend which handled 120K queries/min.
- Rewrote the product indexing pipeline & reduced the total time taken from 3 hours to 10 minutes.
- Made an Elasticsearch query builder to abstract away complex query writing.
- Migrated the system from Ansible to Kubernetes
- Led the developer experience team and built an ecosystem that allowed anyone to launch their own staging environment in under 5 minutes

HackerEarth   R&D - Software Developer Intern   *(Summer 2016)*

- Wrote the evaluation platform for Regular Expression, File Evaluation & Machine Learning Problems.
- Built an auto-scaling system which adds/removes servers by predicting the load using the Holt-Winters forecasting algorithm.

Mozilla Winter of Security   Student Developer   *(Winter 2015)*

- Created new Virtual Reality Interfaces using three.js to visualize various threat actors and security breaches through the *MozDef Platform* .
- Project Home • My Contributions

Grofers   Software Engineer Intern   *(Summer 2015)*

- Worked on the core API team to push a multitude of features and bug fixes to the consumer app.

OPEN SOURCE

Mozilla Firefox
Contributed mutliple bug fixes to Mozilla's Firefox Browser.
• Project Home • My Contributions

Numpy
Fixed various bugs in their core library.
• Project Home • My Contributions

Mozilla SSH Scan
Contributed bug fixes and features to Mozilla's SSH Scan Project.
• Project Home • My Contributions

OSDC Bot
Started and currently maintaining an open-source chat-bot project.
• Project Home • My Contributions

PROJECTS

All projects can be found on **github.com/yashmehrotra**

Soldier Over 60000 downloads
Created a python library for executing and managing system operations and processes through a user-centric API.

Neptune
Wrote a python-based web framework from scratch which enabled users to create their own web applications.

Gokarna
An opinionated hugo theme with a focus on minimalism and simplicity