

Kartik Verma

Software Engineer

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Work Experience

Senior Software Engineer / SDE3

July 2019 - Present

GOJEK

Bangalore, India

- Leading the team in Design and Development of Open Source Role Based Identity and Access management system, and identity & access proxy for Data Platform Resources and API Endpoints, that resulted in improved response time for authorization check by 97.5%, from 6 seconds to 35 ms. It's open sourced as Shield. Along with Gojek, this is also being used by other organizations such as Goto Financial as Multitenant Setup
- Lead the initiative of Implementing SLAs for the various microservices owned by Customer Platforms
- Lead the initiative of Resizing of infrastructure in Customer Platforms, which decreased GCP Billings by 40%
- Worked on Implementing Loyalty Status Sync between Gojek and Tokopedia, after the GoTo merger to provide loyal users of Tokopedia to enjoy similar benefits in GoClub, which enable to increase the enrollments by 2% on Gojek
- Designed and Implemented GoClub Loyalty Program from scratch, including leading the initiative of various features, selecting Database, Fraudulent Prevention, setting up provisioning of infrastructure and Observability Stack
- Worked on improving Product Discovery and Personalized Engagement services by adding International support, which helps product increase their visibility on home screen and experiment with personalized product offerings.
- Managing Onboarding and Learning plan for Interns and new team members
- Successfully implemented Tree based Rule Engine for App Updater Service for various Gojek Mobile Apps, improved the service transaction time by 99.2%, from 15 ms to 0.12 ms

Google Summer of Code Student Developer

May 2019 - October 2019

CLOUDCV

Mumbai, India

- Planned, Designed and Implemented a robust pipeline for submission of prediction model or Agent in the form of Docker Images that will be evaluated against an Environment on Remote GPU Machines
- This Project is used by organizations like Facebook, Amazon and various conferences for hosting Code Upload and Reinforcement Learning Challenges on EvalAI

Trainee - Software Engineer

December 2018 - January 2019

BOOKMYSHOW

Mumbai, India

- Implemented an API that validates the relationship between shared entities like Categories, Genres, Tags, Languages and Regions, which is being used by Discovery Page ETL pipeline, which will load data from a catalog ingestion queue to Elasticsearch, that will serve as content provider for discovery page as well as for on-site search

Intern

January 2018 - March 2018

HULLO.AI

Mumbai, India

- Implemented REST service that generate several tags from a single tag for an Intent.
- Improved Telephonic Call Bot's conversation transition with increasing intents. The solution made it possible to increase transition intents by 25%.

Education

Bachelor of Engineering in Computer Engineering

2015 - 2019

UNIVERSITY OF MUMBAI

Mumbai, India

Projects

Projects and Open Source Contributions available on Git: <https://www.github.com/krtkvrmm>

- **Shield:** RBAC user management system, identity & access proxy, and authorization server for resources in Open Dataops Platform (ODPF)
- **Vulnerability Scanner and Defender** (Winning Project at Smart India Hackathon 2019 - Ministry of External Affairs): Developed a solution that can scan a Website for OWASP Top 10 Vulnerabilities and a Defender to block all malicious requests to a server.
- **EvalAI** (under CloudCV, as Open Source Contributor): EvalAI is an open source web application that helps researchers, students and data-scientists to create, collaborate and participate in various AI challenges organized round the globe.
- **Kaniko** (under GoogleContainerTools, as Open Source Contributor): Kaniko is a tool to build container images from a Dockerfile, inside a container or Kubernetes cluster.

Technical Skills

Languages Go, Python

Technologies Git, Aerospike, Postgres, Kafka, Chef, Terraform, Ansible

Recent Achievements and Awards

- Winner at Smart India Hackathon 2019 - Ministry of External Affairs Grand Finale.