Kartik Verma

Software Engineer

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Work Experience

Software Engineer L4   *July 2023 - Present*

PIXXEL SPACE   *Bangalore, India*

- Leading initiative for open source release of our internal Geospatial ML and Analytics framework, refactoring components to be more generic and modular. This would help in enabling community adoption while maintaining robust satellite imagery processing capabilities
- Designed & Implemented comprehensive Pricing Framework for ML Model Usage
- Lead Optimization ML Infrastructure through GPU stack integration and reduced model execution warmup time by 62%
- Lead Design & Development of our internal Model Benchmarking framework, which brought down time to release model by 92%
- Implemented and enhanced observability stack, enabling comprehensive system monitoring and performance tracking
- Developed Machine Learning Platform for Remote Sensing and Geospatial Information Systems

Senior Software Engineer   *July 2019 - July 2023*

GOJEK   *Bangalore, India*

- Lead the redesign and development of identity and access management system for Data Platforms. The result was a remarkable 99.88% improvement in the average response time for authorization checks. The system, named Shield is now available as an open-source solution.
- 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 15%
- 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 a significantly on Gojek
- Designed and Implemented GoClub Loyalty Program from ground up, which included spearheading the addition of multiple features, selecting the appropriate database and fraudulent prevention measures, and overseeing the setup of infrastructure provisioning and observability stack
- Contributed to the enhancement of Product Discovery and Personalized Engagement services by implementing International support. This feature increased product visibility on the home screen, allowing for experimentation with personalized product offerings.

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*

- Built an API to validate relationships between shared entities such as Categories, Genres, Tags, Languages and Regions, for Discovery Page ETL pipeline feeding data from catalog ingestion queue to Elasticsearch for content discovery and search

Intern   *January 2018 - March 2018*

Hullo.ai   *Mumbai, India*

- 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/krtkvrm

- **Frontier**: User management system, identity & access proxy, and authorization server for resources in Open Dataops Platform (ODPF)
- **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