SATPREET MAKHIJA

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WORK EXPERIENCE

Google   Mar 2024 - Present
Google Distributed Cloud (GDC), Software Engineer

- As a part of Google Distributed Cloud's artifact management team, contributed to multiple key projects including container registry, signature verification, and several major engineering excellence initiatives.
- Implemented and launched a container registry (think DockerHub equivalent) for an air-gapped version of Google Cloud; programmed using kubernetes controllers as the registry needs to be self-healing.
- Designed and implemented signature package verification for container images. The feature enabled software integrity check during shipment to customer locations by ensuring credibility through secure verification.
- Designed and implemented the networking architecture for the artifact registry product; extensively used istio to create a programmable-application aware network.
- Used tools such as kubernetes, controllers, golang, istio and several other cloud native technologies.

Google   Jul 2022 - Mar 2024
Strategic Cloud Engineer

- Implemented proof of concept for an AI product, Data Insights, to query tabular data using natural language. Data Insights is now publicly available in Google Cloud's data management product.
- Worked on open-sourced Dataproc tools that help in performing in-cloud big data tasks using Spark and Hadoop. Delivered a feature with end-to-end ownership which automatically transfers data from MongoDB to BigQuery.
- Implemented and tested infrastructure-as-code for a shopping platform to automate their infrastructure resource provisioning such as Kubernetes clusters, private networks and organization policies on cloud.
- Collaborated with different project engineering teams of Google Cloud to add new features. Represented Google Cloud to external stakeholders to help adopt cloud technologies.

EDUCATION

Ashoka University   Aug 2018 - Apr 2022
Bachelors of Science (Honours) Computer Science
Department of Computer Science   Major CGPA: 3.74/4

SELECT PROJECTS

WatchYourMouth.in

- Designed, implemented and launched a platform for users to improve their communications skills by analysing online conversations on Google Meet. Features included track words, get vocabulary score and word suggestions.
- Used React to implement the front end, NodeJS for backend and MySQL for database. Deployed the platform using docker and streamlined continuous integration and deployment using Github Actions.

TECHNICAL SKILLS

Programming Languages	Go, Python, Typescript, Javascript
Frameworks and Tools	React, NodeJS, Docker, PostgreSQL, Kubernetes, Istio, Git, Linux