

SATPREET MAKHIJA

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WORK EXPERIENCE

Google

Google Distributed Cloud (GDC), Software Engineer

Mar 2024 - Sept 2025

- As a part of Google Distributed Cloud's artifact management and monitoring team, contributed to multiple key projects including container registry, signature verification, monitoring system, 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 needed self-healing.
- Designed and built a signature verification mechanism for container images.
- The feature enabled software integrity checks while shipping Google software to on-premise data centers.
- Designed and implemented the networking architecture for the artifact registry product.
- Created a secure networking mesh using Istio to connect artifact distribution and monitoring of workloads across multicluster GDC environments.
- Implemented the monitoring stack to scale metrics scraping from system workloads.
- Designed an API for customers to scrape metrics and use it to set alerts, and dashboards using Grafana.
- Used Kubernetes, controllers, operators, CRDs, Helm, Istio, Prometheus, and other cloud technologies.
- Participated in the team's on-call rotation and on-duty rotations to solve customer issues and fix bugs.
- Mentored an intern to drive the execution of a metrics adapter to collect metrics in OpenTelemetry format.

Google

Strategic Cloud Engineer

Jul 2022 - Mar 2024

- Implemented a 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-source Dataproc tools that helped perform in-cloud big data tasks using Spark and Hadoop. Delivered a feature with end-to-end ownership that automatically transfers data from MongoDB to BigQuery.
- Implemented and tested infrastructure-as-code for a shopping platform to automate their infrastructure resources provisioning, such as Kubernetes clusters, private networks, and organization policies on the cloud.
- Collaborated with different project engineering teams of Google Cloud to add new features to cloud products. Represented Google Cloud to external stakeholders to help adopt cloud technologies.

EDUCATION

Ashoka University

Bachelors of Science (Honours) Computer Science
Department of Computer Science

Aug 2018 - Apr 2022

Major CGPA: 3.74/4

TECHNICAL SKILLS

Programming Languages Frameworks and Tools

Golang, Python, Typescript, Javascript, Terraform, Nix
NodeJS, Docker, PostgreSQL, Kubernetes, Istio, Git, Linux