

Sumit Banerjee

Engineer with 5+ years of experience translating complex requirements into efficient and user-friendly solutions, with a strong focus on data-driven applications and cloud technologies.

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SKILLS

- Programming: Python, Java, Go, PHP, C/C++
- Web Development: HTML, CSS, JavaScript, TypeScript
- Databases: MySQL, PostgreSQL, Spanner, BigTable, HBase
- Warehouse: BigQuery, Snowflake, Redshift, Hive
- GCP: Dataflow, Dataproc, Composer, CloudRun, CloudFunction, GKE, GCE, GCS, Pub/Sub, CloudBuild
- Other: SQL, Hadoop, Spark, ApacheBeam, Airflow, NiFi, Docker, Linux, Kubernetes, AI/ML, UI/UX

PROFESSIONAL EXPERIENCE

GOOGLE

Bangalore, India

Strategic Cloud Engineer, Data

May, 2022 - Present

- Developed and implemented frameworks for seamless schema, data migration, and validation across diverse database and warehouse technologies, and open-sourced some of these for broader community use.
- Overhauled a custom python client library for a customer that enabled HDFS-like operations in GCS, achieving a significant **throughput increase from 1 object/sec to approximately 500 objects/sec**.
- Contributed to open-source Python client libraries for GCP products, resolving bugs and improving functionality.
- Contributed to the development and maintenance of an internal tool for automated team calendar management, **servicing over 2,500 users**. Responsibilities included implementing new features, resolving bugs, and providing ongoing support.
- Built, optimized, and maintained data infrastructure leveraging services like Dataflow, Dataproc, and Composer to enable large-scale data processing pipelines, inference pipelines, and orchestration workflows.
- Developed and implemented a Feedback Loop process that leverages a data-driven approach to iteratively improve agent performance within a customer's Contact Center and AI platform.
- Optimized the backend architecture of a customer's analytics platform, achieving a **90% reduction in data loading times** and significantly enhancing user experience.
- Optimized BigQuery queries used for refreshing data sources, decreasing average **execution time from over 3 hours to 2.5 minutes**.

- Delivered in-person workshops and demos on Generative AI and Gemini CodeAssist, highlighting their potential to improve developer productivity for GCP customers.

MICRON TECHNOLOGY

Hyderabad, India

Data Engineer

Sep, 2020 - May, 2022

- Developed and implemented high-impact solutions across various business areas, including fabrication, assembly/test, and procurement, resulting in a **~10% yield increase per cycle**.
- Built and maintained a suite of libraries for efficient data access and transformation across diverse data sources, improving data utilization throughout the organization.
- Developed robust parsers/utilities in Python to process diverse file formats (XML, Parquet, Avro, JSON, CSV, HTML), end-to-end pipeline to ingest the same to various warehouses and automated workflows using NiFi.
- Built a web application to manage comp-offs and track team tasks/activities, deployed on OpenShift.
- Created tools to streamline lookups in archive files, **reducing debugging and issue resolution time by 60%**.
- Modernized critical data feeds by implementing an automated solution using Python, Java, and NiFi, improving data reliability and efficiency.
- Contributed to an internal platform for automated API builder for CRUD operations across multiple data sources (Snowflake, GCP, Hadoop, MySQL, Oracle).
- Developed and maintained data pipelines, integrating data from various sources into the big data ecosystem (Hadoop, Snowflake, GCP).
- Led the migration of schemas, data, and applications from HBase to BigTable, ensuring near-zero downtime and minimal impact on users.

DIGITALADDON

Jaipur, India

Developer

April, 2019 - Aug, 2020

- Designed and developed **100+** dynamic and responsive web applications, e-commerce platforms, custom CMS platforms, data extraction tools, and APIs.
- Built an order management system for a key service category, **generating 40% of company revenue**. Features included adding funds, a ticket system, custom user privileges, API support, and automated third-party API integrations.
- Integrated a recommendation system for e-commerce applications, resulting in a **30% revenue increase**.
- Created a chatbot to assist clients with business requirement queries.

FREELANCE

- Completed **50+ projects** for clients including IIT Delhi and CSIRO Australia.

EDUCATION

AMITY UNIVERSITY

Bachelor of Technology in Computer Science

NOIDA, INDIA

2015 - 2019