

Md Sirajus Salayhin

Tokyo, Japan

- salayhin.lab@gmail.com • +81-080-6918-4753
- linkedin.com/in/salayhin • github.com/salayhin

SUMMARY

Staff Data Engineer with over 14 years of experience designing and delivering scalable, cost-effective data platforms on GCP and AWS. Led lakehouse implementations, dimensional modeling, and FinOps initiatives that delivered up to 90% faster query performance and 60% cost savings. Expert in dbt-driven testing and data lineage to ensure reliable, governed data products and accelerate ML workflows. Passionate about partnering with innovative teams to drive data excellence and unlock actionable insights.

SKILLS

Languages & Scripting: Python, Scala, SQL, Bash

Data Platforms & Storage: BigQuery, Cloud Storage, S3, Apache Iceberg, Hive, HDFS

Orchestration & ELT: dbt Core, Apache Airflow, Google Cloud Composer

Streaming & Batch: Pub/Sub, Dataflow, Dataproc, Apache Spark

Architecture & Modeling: Data Lakehouse, Data Warehouse

FinOps & Monitoring: GCP audit logs, GCP Billing Export (BigQuery), GCP Asset Inventory, Cloud Monitoring

DevOps & CI/CD: Docker, Kubernetes, Terraform, GitHub Actions

BI & Analytics: Tableau, Redash, Looker

Governance & Security: GDPR Compliance, Data Lineage, Automated Testing

EXPERIENCE

Staff Data Engineer (Permanent)

November 2023 - Present

[Zeals Co., Ltd](#) | Tokyo, Japan

- Directed the design and implementation of a modern data lakehouse and analytics platform, increasing data accessibility and accelerating decision-making.
- Orchestrated organization-wide adoption of dbt Core, establishing modeling/testing standards and CI/CD integration that improved data quality 30% and reduced pipeline maintenance 40%.
- Built BigQuery cost monitoring (system tables + Billing Export) to track spend by query/team and flag hotspots; used those insights to optimize queries, cutting runtime 90%, bytes scanned 80%, per-query costs up to 95%, and monthly costs 40%.
- Engineered the gold layer with dimensional modeling (star schema), transforming raw events into optimized dim_ and fact_ tables, improving query performance 70% and reducing scan volume 80%.
- Delivered business-specific mart_ tables for self-service analytics, cutting BigQuery costs 90% via strategic partitioning, clustering, and materialization.
- Optimized high-cost queries (restructuring joins, pruning scans, refactoring UDFs), reducing runtime 90%, bytes scanned 80%, and query costs 95%.
- Instituted data lineage and a centralized data dictionary via dbt documentation/metadata, enabling clear traceability from source to marts and boosting stakeholder trust and self-service adoption.
- Spearheaded organization-wide data governance and quality practices (contracts, tests, SLAs), increasing data integrity and accuracy 25%.
- Built a GCP Asset Inventory-based utilization monitor across GCP components with automated alerts and rightsizing policies.

- Partnered with ML teams to build automated pipelines for feature engineering and batch inference using BigQuery, GCS, Dataproc, and Dataflow—cutting model iteration time 30%.
- Mentored junior engineers, driving a 20% uplift in technical proficiency and fostering a culture of continuous learning.
- Improved cross-functional collaboration (engineering, data science, product), increasing project delivery efficiency 15%.
- Implemented GDPR-aligned security controls (access policies, encryption, retention), reducing breach risk 20% and ensuring regulatory compliance.

Senior Big Data Engineer (Permanent)

November 2022 - October 2023

[Zeals Co., Ltd](#) | Tokyo, Japan

- Implemented data governance using Google Dataplex, improving data management efficiency by 20% and ensuring compliance with internal and external standards.
- Deployed CI/CD pipelines with Terraform, automating data workflows, reducing manual intervention by 30%, and increasing infrastructure reliability.
- Designed and rolled out a FinOps pipeline using GCP billing exports, reducing infrastructure costs by 15% through proactive cost monitoring.
- Built a semantic analytics layer for a customer-facing dashboard, improving data access speed by 20% and enhancing overall user experience.
- Integrated BI tools (e.g., Tableau) with the Data Lakehouse Gold layer, enabling real-time insights and improving decision-making for business stakeholders by 25%.

Senior Big Data Engineer (Remote)

May 2021 - October 2022

[Zeals Co., Ltd](#) | Tokyo, Japan

- Developed a robust data lakehouse architecture on GCP using BigQuery and Cloud Storage, improving data scalability and accessibility for internal stakeholders.
- Partnered with R&D and analytics teams to support ML model development and BI dashboarding, driving a 20% improvement in data-driven decision-making.
- Audited and remediated data storage systems in collaboration with the security team, strengthening data security protocols.

Senior Data Engineer Level 2

June 2018 - May 2021

[Pathao Ltd](#) | Dhaka, Bangladesh

- Established a scalable analytics ecosystem using Google Dataproc, Google Dataflow, BigQuery, and Data Studio, increasing analytics capabilities by 40%.
- Spearheaded the development of a data lake and warehouse in Google Cloud Storage and BigQuery, reducing data retrieval times by 50%.
- Enhanced the data pipeline framework to handle over 1,000 attributes, boosting data processing efficiency by 35%.
- Designed and implemented a scheduled reporting framework on the data warehouse, generating 10+ financial and operational reports, improving team productivity by 70%.

Senior Data Engineer

June 2015 - March 2018

[Augmedix Bangladesh Ltd.](#) | Dhaka, Bangladesh

- Served as a core contributor in designing and building a data warehouse using SQL Server 2016, improving business decision-making speed by 25%.
- Integrated a data pipeline framework to ingest data from 3rd-party APIs, Google Sheets, and MySQL, processing 100+ attributes and improving data efficiency by 30%.
- Developed a reporting framework for the data warehouse, generating 20+ operational reports and increasing stakeholder access to decision-ready data by 35%.
- Built backend services to serve millions of records from the warehouse, reducing data retrieval latency by 20%.

Software Engineer

June 2013 - May 2015

[Nascenia Ltd](#) | Dhaka, Bangladesh

- Deployed a B2B marketplace platform for farmers using Ruby on Rails and MySQL, increasing seller participation by 30% and boosting transactions by 25%.
- Built a web-based tool for social media analytics and post scheduling with Ruby on Rails and PostgreSQL, improving engagement by 40%.
- Enhanced a school management system by extending core features using Ruby on Rails and PostgreSQL, improving system efficiency and reducing administrative workload by 35%.

Software Engineer

November 2011 - May 2013

[Right Brain Solution Ltd](#) | Dhaka, Bangladesh

- Developed and deployed an API for social media mobile apps in collaboration with the dev team, increasing user engagement by 20%.
- Co-authored a high-traffic automotive portal for the Toronto Star, boosting monthly user visits by 35% and improving customer engagement.
- Built a multilingual B2C ski rental shop, increasing rentals by 20% and expanding the international customer base by 15%.
- Optimized an OMR reader for university online exams, reducing manual data entry time by 95% through improved input handling.

Assistant Programmer

May 2011 - October 2011

[Nanosoft](#) | Dhaka, Bangladesh

- Simplified a web-based appointment scheduling system using PHP and MySQL, improving user experience and reducing booking time by 20%.

Software Developer

June 2010 - April 2011

[Sitebloom](#) | Dhaka, Bangladesh

- Developed a web-based school management system using CodeIgniter and MySQL, improving administrative efficiency and reducing manual workload by 30%.

EDUCATION

Jagannath University Dhaka, Bangladesh B.Sc in Physics	2008
IICT, BUET Dhaka, Bangladesh Post Graduate Diploma in ICT	2019

CERTIFICATION

-
- [Data Engineering with Google Cloud Specialization](#) (Google Cloud Training) (Coursera 2023)
 - [Data Engineering, Big Data, and Machine Learning on GCP Specialization](#) (Google Cloud Training) (Coursera 2023)