

TECHNICAL PROFICIENCIES

Programming Languages: Python, C++ , C
Development Tools and Frameworks: Git, GitHub, Jira, Visual Studio Code, Docker, Google Kubernetes Engine (GKE)
Big Data and Cloud: GCP, Azure, ADF, DataBricks, SQL, Apache Beam, BigQuery, Bigtable, Cloud Function, Dataflow, Airflow, Pub/Sub, Dataform, Apache Spark, Hadoop

PROFESSIONAL EXPERIENCE

Aviato Consulting

Jul 2024 – Present

Software Engineer

- Developed and maintained backend services using **FastAPI**, integrating with Google Cloud Platform (GCP) and **Firestore** for scalable data management.

Clarity

Feb 2024 – Jun 2024

Software Development Engineer Intern

- Architected an advanced **CDP** web application with React.js and Node.js, boosting user data management efficiency by **35%** implemented **Bigtable** integration for event **data fetching** and time-range filters for detailed user activity review.
- Independently implemented a **real-time event pipeline ETL** using **Python** and **Apache Beam**, reading over **5 million user events** daily from **Pub/Sub**, transforming the data, and loading it into **BigQuery** and **Bigtable**. This solution improved data processing efficiency and reduced data handling costs by **10%**.
- Read raw data from **BigQuery** and transformed it using **SQLX** in **Google Dataform**. Implemented an **ETL** process to convert raw data into incremental tables, enhancing data accessibility and reducing query times.

BinPlus Technologies

Nov 2023 – Jan 2024

UI/UX Developer Intern

- Enhanced a **casino game project** by integrating **Socket.IO** components, enabling real-time gameplay connectivity and improving user engagement.
- Architected and implemented a **betting website** from the ground up for a client, integrating multiple APIs for dynamic user management and real-time data updates.
- Designed and developed the frontend using **React.js** and **Bootstrap**, ensuring a fully responsive and dynamic user interface across all devices.
- Implemented robust **authentication and authorization** mechanisms using **Node.js**, securing APIs with token-based authentication to protect user data.

Abhyaz

Dec 2022 – May 2023

Web Developer Intern

- Developed and maintained **three dynamic and responsive websites** on the Zoho platform, utilizing Zoho Sites to create user-friendly web applications.
- Implemented various features and functionalities to enhance user experience, including **interactive forms**, **calendar event markers**, and other dynamic elements.
- Collaborated with a team to develop a fully functional website for **Matlab Technology** from scratch in just **2 weeks** using Zoho Site Editor, ensuring timely delivery and high-quality output.

EDUCATION

SR Group of Institutions, Jhansi

B. Tech in Computer Science & Engineering

2020 – 2024

AKTU University

PROJECTS

Real-Time Streaming Data Pipeline

Python, Apache Beam, Google Cloud Pub/Sub, Apache Kafka, BigQuery, Bigtable, Dataflow

- Developed a **real-time streaming pipeline** to read data from **Google Pub/Sub** topics sourced from **Apache Kafka**.
- Used **Apache Beam** (Python) to transform and clean data, ensuring proper **partitioning** and **schema management**.
- Wrote cleaned data into **BigQuery** with proper **partitioning** and **schema management**.
- Stored specific topic data in **Bigtable** for **high-throughput** and **low-latency** access.
- Deployed and managed the pipeline on **Google Dataflow** for real-time processing and monitoring.

Raw Data to Incremental Table

Google Dataform, BigQuery

- Implemented a **ETL** using **Google Dataform** to transform and clean raw data from various raw data table in Bigquery.
- Transformed data and created views, then used these views to build **incremental tables** for analytics.
- Ensured **data integrity** using **SQLX**, applying various joins and row functions to validate and transform data.
- Automated the ETL using **CronJob** for scheduled runs, with version control managed via **Git**.