Kaustav Paul

Software Engineer – Full-Stack | Distributed Systems & Microservices | Cloud Technologies
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Skills

Languages & Scripting: Java, Scala, Python, C++, TypeScript, Bash
Backend Frameworks & Tools: Spring Boot, Akka, Flask, Node.js, Apache Airflow, WebSockets, JWT
Big Data & Distributed Systems: Apache Spark, Hadoop, YARN, Kafka, PubSub, Redis
Database & Data Warehousing: Oracle, PostgreSQL, HDFS, Google Cloud Storage, GCP BigQuery
Cloud Platforms: Google Cloud Platform (GCP), Red Hat OpenShift
DevOps & Infrastructure: Docker, Kubernetes (k8s), Helm, Jenkins, Terraform, Maven, Gradle
Monitoring & Logging: Grafana, Prometheus, Splunk
CS Fundamentals: Data Structures & Algorithms, System Design, OOP, DBMS, OS, Computer Networks

Experience

Deutsche Bank   Hybrid
*Associate Engineer - **Accelerated Promotion***   Oct 2023 – Present

- Implemented a **Redis-based** queueing system to replace FIFO YARN scheduling, **allowing time sensitive jobs to be processed first** and ensuring that stress run outputs are made available to users with **minimal delay**
- Designed and developed a **high-performance REST API and WebSocket service** using Scala, Akka, Java, and Spring, e**nabling real-time access** to stress run summaries on UI, significantly improving system responsiveness
- Developed a **scalable** data segregation service using Java, Springboot & Spark to organize trade data by country, enforcing **data governance protocols and enabling compliant cloud migration**
- Built a GCP Cloud Composer-based data orchestration solution to **automate data transfers** from on-prem HDFS to Google Cloud Storage, **reducing operational storage costs by 85%** under hybrid architecture rules
- Deployed JupyterHub on GKE using Terraform and GitHub Actions, configured network access to dbLLM APIs, enabling users to **analyze GCP-hosted data** using GPU-accelerated notebooks

Deutsche Bank   Hybrid
Technology Analyst   Jul 2021 – Sep 2023

- Designed and developed a **scalable Data Quality Check framework** to validate large-scale datasets, using Java, Springboot & Spark; enabled users to **confidently sign off** stress-run processes based on data integrity.
- Automated the loading of **JIRA, ServiceNow & Incidents data** into ADC dashboard using Apache Airflow, increasing metric update frequency from **monthly to daily** and improving **operational visibility across teams**
- Implemented TDD for Stress Testing UI application using Jasmine (unit tests) and Protractor (e2e), achieving **80%+ test coverage for production compliance**

SkyBits Technologies Pvt Ltd   Kolkata, West Bengal
Fullstack Developer Intern   Apr 2020 – Jun 2020

- Engineered a data processing pipeline to clean and transform user-provided business KPIs and SPIs and designed an intuitive dashboard to improve daily decision-making and **enhance stakeholder engagement**
- Technologies used: Node.js, MySQL, ETL, React, Chart.js, React Gauge

Itobuz Technologies Pvt Ltd   Kolkata, West Bengal
MERN Stack Developer Intern   Dec 2019 – Jan 2020

- Developed an automated invoice management system for streamlined operations and integrated a secure role-based access control (RBAC) system to **safeguard sensitive financial data**
- Technologies used: MERN stack (MongoDB, Express.js, React, Node.js), JWT authentication

Education

Indian Institute of Engineering Science and Technology, Shibpur   **Jul 2017 - Jun 2021**
BTech in Computer Science and Engineering   *8.86/10 CGPA*