

SANOWER ABEDIN BHUIYAN

Big Data Engineer | Software Engineer

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About Me

This is **Tamjit** from Bangladesh. Passionate and experienced Software Engineer and Big Data Engineer with more concentration on data and problem-solving skills. And having more than 5 years of experience developing large-scale and high-volume software solutions for different kinds of industries like Manufacturers, Retail, Telecom, etc. I'm much more confident to design scalable software solutions, APIs, problem-solving, Sophisticated Data pipelines, and Big Data Applications. In my daily work, I mostly enjoy these two works **Coding** and **Code Review**.

Education

M.Sc in Data Science

IU International University of Applied Sciences

2022 – 2025 Berlin, Germany

Expected Graduation Date: Dec 2025

B.Sc in Computer Science and Engineering

Eastern University, Bangladesh

2017 – 2021 Dhaka, Bangladesh

Result: 3.72 (Out of 4.00)

Diploma in Engineering - Computer Science

Feni Polytechnic Institute

2012 – 2016 Feni, Bangladesh

Result: 3.68 (Out of 4.00)

Skills

Programming

Java Scala Python Shell

Java

J2SE J2EE Spring Boot Spring Framework
Spring Data Hibernate Jasper Report JavaFX
etc.

Big Data

Apache Spark Flink Kafka Airflow
ETL Tools (NiFi, AWS Glue, Informatica) Cloudera
Hadoop Ecosystem(HDFS, Hive, Impala, Sqoop, etc.)
ELK Stack etc.

Data Analysis

OLAP/OLTP Tableau Superset Grafana

Databases

MySQL Apache Druid PostgreSQL MongoDB
etc.

Cloud Platform

AWS GCP

IoT Protocols/Communication Tools

XMPP WebRTC PLC S7 Connector MQTT
AMQP SNMP SMSC SMPP CORBA etc.

DevOps/Architecture

Docker Nginx Git Jenkins CI/CD etc.

Front-End

React.js Thymeleaf Bootstrap

Experience

Sr. Big Data Engineer

Dec 2021 – Present



Mi-C3 International Ltd.

Birkirkara, Malta

- Design, Build and maintain Sophisticated ETL/ELT pipelines for IoT data ingestion and processing using NiFi, Kafka, Flink, Spark, Spring Boot, Druid, etc.
- Developing custom Kafka-Based messaging solutions as per client needs.
- Responsible for developing a universal IoT gateway by building a custom processor in NiFi using Java.
- Working as a core Data/Backend Engineer to build a no-code IoT platform for our internal product named Affectli Mi Stream.

Big Data Engineer

Jul 2021 – Dec 2021



Banglalink | VEON Ltd.

Dhaka, Bangladesh

- Operate large-scale data processing infrastructure Cloudera, Hadoop, Spark, Kafka, NiFi, Airflow, etc. with DataOps techniques to ensure on-time delivery of quality data.
- Development and design of pipeline for data processing and ingest using Spark, Kafka, NiFi, Airflow, etc.
- Applied ML in data pipeline to detect an anomaly, data quality check, etc.

Senior Software Engineer

Nov 2020 – Jun 2021



Bit Mascot (Pvt) Ltd.

Dhaka, Bangladesh

- As a Sr. Software Engineer responsible to collaborate with a cross-functional team to define, design, and bring new features.
- Responsible for mentoring Junior Engineers, reviewing code, and applying scrum methodologies.
- Developed a Web Conferencing Platform on top of Jitsi Meet An Open Source Video Conferencing Platform by modifying its core features and adding new features on its.

Software Engineer | Data Engineer

Aug 2017 – Aug 2020



PRAN RFL Group

Dhaka, Bangladesh

- Research big data analytics and industrial automation solutions based on customer needs and end-user needs.
- Developed applications for the WebJEE, Spring Framework, Server Side, Data Engineering, and multi-platform using Java.
- Working on Data Engineering to build, and design ETL for Big Data Architecture.
- Unit-test code for robustness, including edge cases, usability, and general reliability. And drive on bug fixing and improving application performance.

Software Developer

Oct 2016 – May 2017



Ringer Soft Ltd. (Former: Dictator Soft)

Chittagong, Bangladesh

- Responsible for developing Java-based applications using Spring and JavaFX.
- Software Planning, Design, build, reusable, and reliable Java code.

Languages

English
Bengali



Honors & Awards

2020 **Scholars**
Udacity Bertelsmann Tech Scholarship
Challenge Course - **Data Analyst Nanodegree**

2019 **Scholars**
Udacity Intel® Edge AI Scholarship -
Foundation Course

2018,19 **Best Performer (2018,2019)**
Best Performer of Team at PRAN-RFL
Group

2018 **Mentor and Side Judge**
Google Developer Group Sonargoan
Presents Hack The Sprint

2017 **Best Performer Award**
ComTFPI (Computer Technology FPI)
Alumni Association

2016 **Finalist**
Solve-A-Thon-2016. **3rd Place**, (Division
Stage) **1st Place**, (District Stage)

2015 **Finalist**
Skills Competition 2015. **3rd Place**,
(Regional Stage) **1st Place**, (Primary Stage)

Projects

Universal IoT Data Connector

A universal IoT Data Connector is built for achieving integrating of any kinda IoT/Common Protocols like MQTT, SNMP, CoAP, PLC, Websocket, TCP/UDP, SFTP, RS232, etc. in a single point of contact.

- Build custom NiFi processors to integrate various IoT and other common Protocols.
- Implement Prometheus/Grafana monitoring services for the custom processor.
- Implement Kafka/Spring Boot based messaging service which is work as a staging data hub.

Technology: Java NiFi Kafka Spring Boot Grafana Prometheus Docker etc.

Affectli-(Mi Stream)

The Mi-Stream module is the Data Platform of Affectli. I am working as one of core Data/Backend Engineer to build the Mi-Stream Module of this Platform.

- Using Spark/Flink for its Data Processing Framework.
- Using druid for the real-time data and postgresQL for historical.
- Develop a REST API for some data operations using Spring.
- Custom pseudo alarms integartion.

Technology: Java Kafka Flink Spark Hadoop Spring Boot Docker etc.

Customer Behaviour and Sale Forecasting Analysis

It's a Big Data Analytics Based Project to analyze customer behavior and forecast the sales model.

- Hadoop Ecosystems implemented with various data sources like sales-purchase data, eCommerce data, CRM Data, social data, etc.
- Applied Data Science to analyze customer behavior data to get segmentations and insights, Predict sales model, etc.
- Social Data Analysis, Automatic customer segmentation, profiling, and Churn Analysis.

Technology: Java Python Apache Spark Hadoop Ecosystems scikit-learn ML Tableau BigQuery GCP etc.

Cloud Drive

It's a fully operatable cloud-based file storage and synchronization service. It allows user to store files, shares files, and all types of file operations. The core features are:

- Its most attractive feature is Real-Time file operation in the user's OS default application and synchronize with the cloud.
- Fully operatable admin panel (Managing User, Mange Quote and Veto files, User Audit logs, Server Performance Monitoring, etc.)
- Build a simple framework to ensure Platform Independency to execute OS level Command.
- File monitoring to check undesired files(family/personal picture, movie, etc.)
- Load balancing server architecture, Reliable Data backup-recovery system

Technology: Java Python Spring JavaFX Image Processing Load Balancing Grafana etc.

Web Conferencing with Chatting Gateway

A web conferencing solution with the features of integrated chatting, screen share, documents share, whiteboard, recording, etc.

- Customize its UI by adding some extra functionality like file sharing, whiteboard, identifying faces, etc.
- Design and implement the whole infrastructure. Implement load balancer and auto scalability among the multiple Jitsi VideoBridges
- Develop custom Prosody Plugin as per feature need.
- Bug fixing and improvement on the Backend/WebRTC (node.js) from the existing code base
- Implement an ETL workflow to ensure the KPI of the attendees, and meetings.

Technology: WebRTC XMPP(Prosody) Java Node.js React.js Lua Electron.js React Native Python Tensorflow Grafana Docker etc.