

Fahim Shahriar

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EXPERIENCE

Software Development Engineer 2

Jan. 2024 – July 2024

IQVIA (Fortune 500)

Durham, NC (remotely)

- Implemented batch processing, increasing the system's data-handling capacity from 2.5m rows to 25M rows per transaction.
- Optimized queries, database design and warehouse architecture, resulting in **25%** faster data processing.
- Facilitated meetings with the business team, resulting in 20+ user stories and a 30% reduction in delivery times

Software Development Engineer 1

May 2022 – Dec. 2023

- Developed 10+ Rest APIs using **FastAPI** and worked with large data warehouse (**over 100 GB**) in snowflake.
- Collaborated with multiple teams following **Agile Scrum** sprints, developed Dockerized projects.
- Led the migration to **SQLAlchemy**, reducing database query execution time by 30% and enhancing security by implementing ORM practices.
- Handled cluster management in AWS using **Kubernetes and Kubectl**.
- Increased test coverage by **40%** using pytest and Unittest and setup automated testing pipeline in gitlab.

System Developer

Feb. 2021 – April 2022

e-SRD Lab, CSE, BUET

Dhaka, Bangladesh

- Designed and deployed NCDW, enabling secure storage and querying of 1TB of patient data with 99% uptime.

EDUCATION

University of Minnesota Duluth (Graduate Teaching Assistant)

Duluth, MN

Master of Science in Computer Science and Engineering

Aug. 2024 – May 2026

Bangladesh University of Engineering and Technology

Dhaka, Bangladesh

Bachelor of Science in Computer Science and Engineering

Feb. 2017 – May 2022

TECHNICAL SKILLS

Languages: Python, C, C++, Java, R, Matlab, JavaScript, Bash, YAML, HTML, CSS, JSON, SQL

Frameworks: Django, FastAPI, Flask, React, Node.js, jQuery

Databases: PostgreSQL, MySQL, MongoDB, Snowflake, Redis, Firebolt

Tools: Git, Github, Gitlab, Docker, AWS s3, AWS ECS, Kubectl, Visual Studio, PyCharm, Android Studio, VScode

ML/DL Libraries: Pandas, NumPy, Matplotlib, Tensorflow, Keras, Pytorch, scikit-learn

PROJECTS

Bookazon | *NodeJs, React, MongoDB*

- Built a trading platform with integrated geolocation and payment systems, scaling to 2,000 monthly users

Online Live Football Update | *PostgreSQL, PHP, Html*

- Managed a **RDBMS** with over **1M** records and automated updates via triggers, supporting real-time updates.

College Info Management System | *Django, MySQL, JavaScript*

- Engineered a system serving 5,000+ students, reducing query response times by **30%** with caching and sharding.

Banking Data Mining | *Google Collab, Seaborn*

- Performed exploratory data analysis on a Banking dataset of **200K transactions** to gain insights.

Flight Delay and Cancellation Prediction | *Docker, Python, Jupyter Notebook*

- Used XGBoost to predict flight cancellation with **85%** accuracy and Random Forest Regressor to measure delay with minimal error.

Tuberculosis Detection Using Binary Classifier CNN | *Keras, Tensorflow, sklearn, Google Colab*

- Used transfer learning models (**InceptionV3, ChexNet**), to classify CXR images with **85%** accuracy