

# Raiyan Wasi Siddiky

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## WORK EXPERIENCE

### Digital Assistant, Consultant

Food and Agricultural Organization(FAO), United Nations(UN)

September 2025 - Present

- Collaborated with leading Researchers on a national project forecasting the agricultural landscape till 2050.
- Data Engineering: Led data collection, cleaning, and preprocessing using Python and Pandas.
- Data Analysis: Assisted in forecasting major crop demand-supply using Econometric Models(VECM) and visualizing results.

### Operations Analyst - Automation

Commure, Dhaka, Bangladesh

August 2025 - Present

- Automated RCM recon using **Retool** apps and workflows, reducing manual effort and improving efficiency.
- Built multiple apps and dashboards using SQL, Python and JS to analyze complex medical data and track key metrics.
- Owned processes end-to-end, ensuring transparent communication, achieving goals and improving efficiency by **10%**.

### Teaching Assistant

BRAC University, Dhaka, Bangladesh

February 2024 - September 2024

### Trainee Full-Stack Developer | [Certificate](#)

Learnathon 3.0 by Geeky-Solutions, Brainstation23, Dhaka, Bangladesh

January 2025 - May 2025

## PROJECTS

### Movie Review Classification (NLP) | [Github](#)

Python, Pandas, Numpy, Scikit-Learn, Tensorflow, Matplotlib

- Trained LSTM-based neural network to classify movie reviews as positive or negative using IMDB dataset.

### Self Learning Flappy Bird Clone using Reinforcement Learning | [Github](#)

Python, PyGame, NEAT

- Flappy Bird Clone made using PyGame and using NEAT(Genetic algorithm) to induce self-learning.

### AirBnB Room Rental Website | [Github](#)

MongoDB, Express, React, Node, Jest, Supertest, Netlify

- Built a full-stack MERN app with Google OAuth, role-based access control, and RESTful API architecture.
- Implemented robust security via JWT+Cookies, input validation, environment configs, rate limiting etc.
- Set up Git-based CI/CD pipeline with SonarQube integration, achieving **90%+ test coverage**.

## PUBLICATIONS

### Analyzing and Predicting Trends in Contemporary Social Discourse [Under Review]

Python, Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, NetworkX, PyTorch

- Co-authored final year thesis paper utilizing a large **Twitter dataset** to perform in depth **exploratory data analysis** and model hashtag-based social networks using **Graph Theory** (NetworkX).
- Implemented **LSTM-based neural networks** using TensorFlow and PyTorch to predict future trending directions.

## EDUCATION

### BRAC University | [Certificate](#)

Bachelor of Science in Computer Science and Engineering | CGPA: **3.82/4.00**

Dhaka, Bangladesh

August 2021 - March 2025

- Merit Scholarship, Dean's List, Vice Chancellor's List, Highest Distinction.

### Mastermind English Medium School

O-Levels & A-Levels(Science) (Edexcel, IGCSE) | GPA: **5.00/5.00**

Dhaka, Bangladesh

June 2016 - August 2020

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, JS, TS, C

**Frameworks/Tools:** React, Node, TensorFlow, PyTorch, Sklearn, Pandas, NumPy, Matplotlib, Seaborn

**Dev Tools:** Git, Docker, Trello, Retool, VSCode, Vercel

**Databases:** MongoDB, MySQL, PostgreSQL

**Languages:** English (Native), Bangla (Native)

**Soft Skills:** Communication, Collaboration, Problem Solving, Adaptability, Attention to Detail, Analytical Thinking

## CERTIFICATIONS

Data Analysis with Python by FreeCodeCamp | [Certificate](#)

July 2025