

# Syed Ishtiak Rahman

Dhaka, Bangladesh.

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Enthusiastic Computer Science graduate with a passion for problem-solving, deep interest in Software Engineering and Machine Learning. Significant hands-on experience building applications from scratch through multiple projects using a wide array of technologies like MERN, Django, and PHP(native). Developed projects on prediction and forecasting, build applications using Deep Learning, and Computer Vision. Seek opportunities to enhance expertise through continuous learning and professional development.

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## PROFESSIONAL EXPERIENCES

**UNITED INTERNATIONAL UNIVERSITY**  
Undergraduate Teaching Assistant and Grader

October 2022 – May 2023  
Dhaka, Bangladesh

- Assisted faculties in teaching undergraduate courses.

**FIVERR PLATFORM**  
Freelancer

April 2020 – Nov 2021  
Dhaka, Bangladesh

- Wrote small application with Java, Python
- Developed script and GUI application with Python/Tkinter.

## PUBLICATIONS

**Agriculture 4.0 in Bangladesh: Issues and Challenges.**  
SKIMA-2022

Dec 2022  
Cambodia

- This paper aims to propose a framework with Big Data and IoT based architecture for Bangladesh agriculture based on the existing research advancements.

**A Comprehensive Review on Precision Agriculture and Machine Learning Approach in Bangladesh.**  
I2CT-2023

April 2023  
Pune, India

- . This paper provides an in-depth review of the research on ML applications in Bangladesh agricultural systems focusing disease detection, crop price and yield prediction.

**Green IoT Based Automated door Hydroponics Farming System**  
ICICNIS-2023

May 2023  
Pune, India

- This paper proposes a fully automated hydroponics system along with the integration of green IoT which ensures an environment-friendly, energy-saving, sustainable farming method.

## EDUCATION

**UNITED INTERNATIONAL UNIVERSITY**  
Bachelor of Computer Science and Engineering

2019–2023  
Dhaka, Bangladesh

- Thesis : Machine Learning for Big Data Mining in Agriculture 4.0: Crop Price Prediction project
- Coursework: Software Engineering, Data Science
- CGPA : 3.71
- Merit Scholarship (50–100 %), United International University, [2021–2022]

## PROJECTS

**EaseTask**  
MERN | JWT | Redux

2023

- Task managing web application to manage ongoing, upcoming and finished task.
- User authentication system and profile manage.
- JWS token generate and Http-Only cookie set.

### Eatery

2023

PHP | MySQL | JavaScript | Html | CSS

- Restaurant management system for a cafeteria having multiple restaurants.
- Check the restaurant's crowd and order available food.
- Adjust the cart and order food while managing the inventory system.

### Simple Social

2020

Django | MySQL

- Get user authentication and create educative posts on different categorical groups.
- Create new groups and posts as necessary.

### LetsTrade

2020

JAVA | JAVAfX | Sqlite

- Desktop appliation for sales and management of product, customer, and supplier.
- Adjust sales and products for incoming and outgoing product
- Relation between product-customer, product-supplier

### Crop Price Prediction

2022

Machine Learning | Deep Learning

- Forecast crops prices of Bangladesh based on government dataset and analyze how commodities prices raised/dropped by years
- Supervised learning models, Ensemble models, LSTM-CNN model

### Foot Ulcer Segmentation

2023

Computer Vision | Deep Learning

- Novel Fusion Approaches for Foot Ulcer Segmentation by developing different models using DeepLabv3 and compare them.

## SKILLS

### Programming Languages

- |              |              |
|--------------|--------------|
| • C++        | • Python     |
| • Java       | • PHP        |
| • JavaScript | • TypeScript |

### Backend Framework

- |           |          |
|-----------|----------|
| • Node.js | • Django |
| • Express | • Flask  |

### Artificial Intelligence and Machine Learning

- |                |              |
|----------------|--------------|
| • TensorFlow   | • Matplotlib |
| • Scikit-learn |              |
| • Pandas       | • NumPy      |

### Database Technologies

- SQL
- MySQL

- MongoDB

## DevOps

- Git
- Selenium

- Jira
- Trello