

# Syed Ishtiaq Rahman

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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, built applications using Deep Learning, and Computer Vision. Seeking 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

- Developed and wrote script and GUI application with Java, 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

- . The paper provides an in-depth review of the research on ML applications in Bangladesh's agricultural system 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
- Coursework: Software Engineering, Data Science
- CGPA : 3.71 out of 4.00
- Merit Scholarship (50-100 %), United International University, [2021-2022]

## PROJECTS

**EaseTask**  
MERN | JWT | Redux

2023

- Task managing web application for ongoing, upcoming and completed task. User authentication system and profile managing along with JWS token generate and Http-Only cookie set.

<b>Eatery</b> PHP   MySQL   JavaScript   Html   CSS	2023
<ul style="list-style-type: none"> <li>Restaurant management system for a cafeteria having multiple restaurants. Checking the restaurant's crowd and order available food by adjusting cart and payment through SSL gateway.</li> </ul>	
<b>Simple Social</b> Django   MySQL	2020
<ul style="list-style-type: none"> <li>Get user authentication and create educative posts on different categorical groups. Create new groups and posts as necessary.</li> </ul>	
<b>LetsTrade</b> Java   JavaFx   SQLite   Object Oriented Programming	2020
<ul style="list-style-type: none"> <li>Desktop application for sales and management of products, customers, and suppliers. Adjust sales and products for incoming and outgoing products by creating relation between product-customer, product-supplier.</li> </ul>	
<b>Crop Price Prediction</b> Machine Learning   Deep Learning	2022
<ul style="list-style-type: none"> <li>Forecast crop prices of Bangladesh based on government datasets and analyze how commodities prices raised/dropped by years with the help of Supervised Learning, Neural Networks, Ensemble model and CNN-LSTM model.</li> </ul>	
<b>Foot Ulcer Segmentation</b> Computer Vision   Deep Learning	2023
<ul style="list-style-type: none"> <li>Novel Fusion Approaches for Foot Ulcer Segmentation by developing different models using DeepLabV3 and pre-trained models and compare them.</li> </ul>	
<b>Meeting Planner</b> Software Quality Assurance   Unit Testing	2022
<ul style="list-style-type: none"> <li>Object Oriented Programming based Java application for planning meetings for different department and employees. Writing test cases for all functionality.</li> </ul>	

## SKILLS

### Programming Languages

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

### Frameworks

- Node.js – Express
- Django – Flask
- React – Redux

### Artificial Intelligence and Machine Learning

- TensorFlow
- Scikit-learn
- NumPy – Pandas
- Matplotlib

### Database Technologies

- SQL – MySQL
- MongoDB

### DevOps

- Git
- Selenium
- Jira
- Trello

Find me at : [leetcode.com/Avoidishti](https://leetcode.com/Avoidishti)