

# SYED ZIAUL BIN BASHAR

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## EXPERIENCE

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### Research Assistant - NSOL

New Mexico State University

Sep 2024 - Present

*Las Cruces, NM, USA*

- Top-Layer detection and security aspects of Additive Manufacturing
- Integration of LLMs with 6G network

### Data Analyst - Supply Chain Function

Unilever Bangladesh Limited

Feb 2023 - Aug 2024

*Dhaka, Bangladesh*

- Python to automate data workflows and inventory forecasting
- Analyze Allobot for daily product allocation to customers
- Creating digital twins to eliminate manual tasks of multiple employees

### Student Tutor

Department of Maths and Natural Sciences, BRAC University

Mar 2022 - Aug 2022

*Dhaka, Bangladesh*

- Course: Differential calculus and coordinate geometry
- Grading homeworks, assignments and quizzes
- Student database monitoring, updating, and keeping track of student activities

## RESEARCH

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### Comparative Study of Object Detection Models for Safety in Autonomous Vehicles, Homes, and Roads Using IoT Devices

Published on "IEEE CSDE 2023" Conference [IEEE Xplore Link](#)

### Assessing Security Vulnerabilities and Mitigation Strategies in the NFT Gaming Industry: An In-Depth Analysis

Submitted for review on "TEHI 2023" Conference

### Recognition of Different Accents and Speech Sentiments Using Zero-Shot Learning

Work in Progress

## INTERNSHIPS

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### Software Development Intern

RedDot Digital Limited - ROBI

Oct 2022 - Jan 2023

*Dhaka, Bangladesh*

- Working with JAVA, Spring-Boot to develop Restful APIs
- Test APIs and create documentation
- Integrating Spring Boot & Postgres Database

## EDUCATION

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### Doctor of Philosophy - Computer Science, New Mexico State University

*RA under Dr. Satyajayant Misra*

Aug 2019 - Present

### Bachelor of Computer Science & Engineering, BRAC University

Graduated with CGPA 3.46 out of 4.00

*Named in the VC's list for 4 Semesters*

Jan 2019 - Jan 2023

### Secondary & Higher Secondary School Certificate, Ispahani Public School & College

2004 - 2018

## SKILLS

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<b>Programming Languages</b>	Python, Julia, JAVA, C++, JavaScript
<b>Tools</b>	Jupyter Notebook, VS Code, IntelliJ, Selenium, Postman, pgAdmin, Power BI
<b>Others</b>	MATLAB, Tensorflow, Pandas, NumPy, Scikit-learn, matplotlib, LaTeX

## PROJECTS

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**Inventory Forecasting - Python, PowerBI.** Fully automated the process of forecasting the company inventory system from taking input from SAP to showing it in a Dashboard I created on PowerBI.

**RPM Rescheduling - Python, PowerBI.** Fully automated the process of forecasting which Purchase Orders' need action(create new order, prepone, postpone, or delete order), showing analysis it in a Dashboard I created on PowerBI.

**EllipticCurve Cryptography- JAVA.** Built a tool to do Computations on Elliptic Curves, takes in the input of Elliptic curve and P. Output: Shared Key of the Elliptic Curve ([GitHub Link](#))

**Fake News Detection - Pandas, Python.** A model that can detect Fake News with 94.87% accuracy. TfidfVectorizer and PassiveAggressiveClassifier were used to train the model ([GitHub Link](#))

**Line Following Robot – Python, WeBots .** A custom-made Robot that can follow and go through a curve or a straight line without crossing the track.

**Ethereum Fraud Transaction Detection – Python.** Detecting fraud transactions on Ethereum-based accounts using Hybrid ML and Neural models.

**Email Automation – Python.** Developed using Python, set in parameters of email subject and date. The code will download all the attachments of the mail and store it in a folder and send it to a WhatsApp group. ([GitHub Link](#))

**Daily Cost Tracker – iOS App.** iOS App made with Swift which can store and calculate daily cost.

**Westford Website - Laravel, Vue.** A responsive website made with Laravel Backend Frontend with VueJS. ([GitHub Link](#))

**Doctor Booking Website - React.** A responsive website where a user can book appointments with selected doctors. Frontend with ReactJS, using API to return data. ([GitHub Link](#))

## ACHIEVEMENTS

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- **SC Director's Award H1 2023 (Unilever Bangladesh)**  
For outstanding performance on inventory forecasting project "PLAN DIISH"
- **HULT Prize onCampus 2022**  
1st Runners Up onCampus — Selected to participate in Regional Summits (Top 5%)  
Digital Business Solutions to marginalized and underprivileged people by transforming e-waste into consumable goods
- **Blockchain Olympiad Bangladesh – 2022**  
Top 50 Nationals — Finalist  
Ensuring a secured Decentralized Tax Verification System using Blockchain Technology

## CERTIFICATES

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- **IELTS Score – September 2023**  
Overall Score 7 - with no band less than 6.5
- **Basic Image Classification with TensorFlow – 2023**  
An online non-credit project authorized by Coursera Project Network and offered through Coursera

- **Software Engineering Virtual Experience – 2022**  
JP Morgan Chase & Co. – Forage  
Gain practical career skills and experience
- **Professional Skill Development Program – 2022**  
OCSAR – BRAC University
- **Blockchain for Decision Makers – 2021**  
EIT Digital – Cofounded by EU – Coursera

## **VOLUNTEER WORK**

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- **Unilever Heart – to – Heart Market**  
03/2024  
successfully raised funds to support 300 underprivileged families with essential food rations, from the sale of pre-loved goods.
- **BRAC University Computer Club (BUCC)**  
Senior Executive  
Writing proposal letters and managing sponsorship for arranging on-campus tech contests
- **BRAC University Film Club**  
Executive of Graphics & Production  
Editing short films in Adobe Premiere Pro and making posters using Adobe Photoshop

## **REFERENCES**

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### **Dr. Satyajayant Misra**

Associate Dean for Research, College of Engineering  
New Mexico State University – las Cruces, NM  
misra@cs.nmsu.edu

### **Dr. Muhammad Iqbal Hossain**

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