

## EDUCATION

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### State University of New York (SUNY) Binghamton

Ph.D. in Computer Science, Advisor: Jayson Boubin

Binghamton, NY

August, 2022–Present

### Jahangirnagar University

M.S. in Computer Science and Engineering

Dhaka, Bangladesh

April 2015–February 2017

### Jahangirnagar University

B.S. in Computer Science and Engineering

Dhaka, Bangladesh

2010–2014

## WORK EXPERIENCE

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### State University of New York at Binghamton

Graduate Assistant

Binghamton, USA

Fall 2022–Present

### Daffodil International University

Assistant Professor

Dhaka, Bangladesh

Spring 2022 - Summer 2022

### Daffodil International University

Lecturer

Dhaka, Bangladesh

Fall 2015 - Fall 2021

## PUBLICATIONS

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- [1] **Aniruddha Rakshit**, S. Reddy, R. Ramnath, A. Arora, and J. Boubin, “Righteous: Automatic right-sizing for complex edge deployments”, in *9th ACM/IEEE Symposium on Edge Computing (SEC 2024)*, 2024, 1–12 [To Appear].
- [2] **Aniruddha Rakshit** and J. Boubin, “Poster abstract: Automatic deployment right-sizing through hyperparameter optimization”, in *Proceedings of the 8th ACM/IEEE Conference on Internet of Things Design and Implementation*, 2023, pp. 438–439.
- [3] R. Hafiz, M. R. Haque, **Aniruddha Rakshit**, and M. S. Uddin, “Image-based soft drink type classification and dietary assessment system using deep convolutional neural network with transfer learning”, in *Journal of King Saud University - Computer and Information Sciences*, 2022, pp. 1775–1784.
- [4] F. Ahmed, A. R. Choudhury, **Aniruddha Rakshit**, and M. Z. Hasan, “2020 ieee region 10 symposium (tensymp)”, in *An IoT Based System for Printing Braille Letter from Speech*, 2020, pp. 344–347.
- [5] R. H. Hridoy, F. Akter, and **Aniruddha Rakshit**, “Computer vision based skin disorder recognition using efficientnet: A transfer learning approach”, in *2021 International Conference on Information Technology (ICIT)*, Apr. 2020, pp. 482–487.
- [6] M. I. Khairul Islam, R. I. Meem, F. B. Abul Kasem, **Aniruddha Rakshit**, and M. T. Habib, “Bangla spell checking and correction using edit distance”, in *2019 1st International Conference on Advances in Science, Engineering and Robotics Technology (ICASERT)*, 2019, pp. 1–4.

## PROJECTS

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- **Third Eye (OpenCV, Long Range Radio Communication, 2023)**

In this project, one node, a combination of a camera module and LoRa, detects objects and sends them to a receiver node using LoRa. [\[Details\]](#)

- **Spotted Lantern Fly Detection through Drones (YOLOv8, 2023)**

The aim of this project to detect Spotted Lantern Flies through object detection using drones. This project is a part of the Digital Ag Hackathon at the Cornell Institute for Digital Agriculture. [\[Details\]](#)

- **Robot Task Planning with LLMs (Prompt Engineering, 2023)**

I explored the capabilities of large language models like GPT-3 in interpreting grounded instructions for everyday tasks by breaking into smaller tasks which can be executed by robots.[\[Details\]](#)

## SKILLS

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- **Programming Languages:** Python, C++, C, Java
- **Simulation and Design Tools:** MATLAB, SIMULINK, ROS
- **System Design Skill:** Docker, Kubernetes, Load Balancer
- **Machine Learning Libraries:** PyTorch, Tensorflow, Keras, Scikit-Learn

## RELEVANT COURSE WORKS

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Programming Languages | Operating Systems | Introduction to Robotics | Introduction to IoT

## SCHOLARSHIPS AND AWARDS

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| • Jahangirnagar University Scholarship (5th Position in class) | December 2013 |
| • Jahangirnagar University Scholarship (7th Position in class) | August 2013   |
| • Bangladesh Government Scholarship (HSC GPA 5.0)              | March 2010    |

## EXTRACURRICULAR ACTIVITIES

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|---|-----------|
| • Convenor of program design and management<br><i>International Joint Conferences on Advances in Computational Intelligence 2020 (IJCACI2020)</i> | 2020      |
| • Member<br><i>Badhan-A Blood Donation Group</i>  | 2010–2014 |
| • Member<br><i>Notre Dame College Nature Study Club</i>   | 2009      |