

# HASIDUL ISLAM

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Stackoverflow: Hasidul Islam

## EDUCATION

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<b>American International University-Bangladesh (AIUB)</b> BSc in Computer Science and Engineering <b>GPA: 3.90/4.00</b>	<i>2017 - 2020</i>
<b>Dhaka City College</b> Higher Secondary Certificate(HSC) <b>GPA: 5.00/5.0</b>	<i>2014 - 2016</i>
<b>Fulgazi Model Pilot High School</b> Secondary School Certificate(SSC) <b>GPA: 5.00/5.00</b>	<i>2012 - 2013</i>

## PUBLICATIONS

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### **Data Augmentation Technique to Expand Road Dataset Using Mask RCNN and Image Inpainting**

This research contributes to expanding the dataset of road images. Using this method will benefit a variety of existing and new research projects that require an empty road to train their data-driven model. The method described in this paper uses image segmentation and image inpainting. The model detects the vehicle with Mask RCNN and removes the detected object with image inpainting.

**Journal Paper** | **Conference Paper**

## PROFESSIONAL EXPERIENCE

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**Medina Tech Ltd.** *July, 2022 - Present*  
**Software Engineer(Level 2)**

- Research and Development for different project's architecture and tech stack.
- Built back-ends in Python using **Django REST Framework and Postgres**.
- Reviewed others code and gave feedback.
- Wrote web scrapers using Python libraries like BeautifulSoup and scrapy for data collection.
- Setup and maintained **AWS EC2** for Django Projects using **Apache** Server.

**Medina Tech Ltd.** *August, 2021 - June, 2022*  
**Software Engineer(Level 1)**

- Developed and maintained back-ends built using **Django, Django REST Framework, PostgreSQL, Flask**.
- Deployed Django back-ends on **AWS EC2** using **Apache** web server
- Got **Employ of The Quarter** for best performance.

**Medina Tech Ltd.** *June, 2021 - August, 2021*  
**Software Engineer Intern**

- Integrated a **Flask(Python)** chatbot to **Symfony(PHP)** web app.
- Wrote automation scripts to automate English to Bangla translation for in-house software and websites which saved project development time.
- **Internship experience interview.**

**Teaching Assistant**

- Assisted faculty members in Object-Oriented Programming 2 (C#) course.
- Acted as a Teaching Assistant for two sections with a total of 80 undergraduate students.

**PROJECTS**

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**Dr.Chashi***Python, Django, Django REST Framework, PostgreSQL*

Dr.Chashi is a Digital Farming solution that helps farmers and other agro stakeholders to get the right farming knowledge and manage their farming needs. There exist multiple software under the umbrella of this project. I worked on the back-end database design and API building of multiple software for this project.

**Project Website:**Dr.Chashi**slurp***Python, Scrapy, CircleCI, Markdown*

This is an open source project of a knowledge based website. I wrote scrapper using **Scrapy(a web-crawling framework written in Python)** for this project. Also wrote some **CircleCI** configuration for my script. Fixed documentation written in Markdown. I also review code for this project.

**Live Project:** slurp **Github:** slurp**Football Club Management System with Auto Squad Generation***C#, Microsoft SQL Server*

This is a football club management system that has a special auto squad generation system. Which generates a squad of different formations. Player for each position is selected based on their previous performance.

**Github:** Football Club Management System with Auto Squad Generation**Content Rating System***PHP, JavaScript, HTML, CSS, MySQL*

Content Rating System is a website where the content creator can upload their content's profile to be rated. Normal users and critics rate the content. Normal users and critics can also comment on the content.

**Github:** Content Rating System**TECHNICAL SKILLS**

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<b>Programming Languages</b>	<b>Python, C#, PHP and C++.</b>
<b>Web Technologies</b>	<b>HTML, CSS, Bootstrap and JavaScript.</b>
<b>Frameworks</b>	<b>Django, Django REST Framework, Flask</b>
<b>Databases</b>	<b>MySQL, PostgreSQL and Sqlite.</b>
<b>Software &amp; Tools</b>	<b>Git, Linux, Bash, Markdown, Vim, VS Code, Jira</b>
	<b>Pre-Commit, Postman, CircleCI and LaTeX.</b>

**LANGUAGES**

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<b>Bengali</b>	Native proficiency
<b>English</b>	Full professional proficiency
<b>Language proficiency test</b>	<b>IELTS: 7.5</b> (Listening: 8.5, Reading: 7.0, Writing: 6.0, Speaking: 7.5)

## CERTIFICATES AND TRAININGS

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- **Programming for Everybody (Getting Started with Python)**
- **Capstone: Retrieving, Processing, and Visualizing Data with Python**
- **Python Data Structures**
- **Using Databases with Python**
- **Using Python to Access Web Data**
- **Computer Vision Basics**

## ACADEMIC ACHIEVEMENTS

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### Scholarships

- **Academic Merit Scholarship**, *American International University - Bangladesh*
- **Government Merit Scholarship**, *Board of Intermediate & Secondary Education, Cumilla 2012*

## EXTRA-CURRICULAR

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### **NSU Technovation 2.0 2019 - Datathon** *November 2019*

- Analyzed, visualized and derived conclusions from a dataset derived from a health-monitoring application.

### **BUP Techsurgence 2019 - Robot Soccer** *April 2019*

- Designed, built and programmed a soccer-bot using the Arduino Uno and HC-05 for control.

### **AIUB CS Fest 2018 - Poster Competition** *November 2018*

- Presented a poster on using machine learning techniques to translate Bengali Sign Language and communicate with the deaf and mute in real-time.

### **Boy Scout** *2010 - 2014*

- Lead the school scout team as the scout leader.
- Participated in two regional scout assembly.
- Got 1st prize for the best poster in 2012 regional scout assembly.

### **Debating** *2010 - 2014*

- Participated in multiple national and Zila level debating Competition.
- Won the 2nd prize of Zila debating competition in 2012