



# Maksuda Islam

**in** [linkedin.com/in/maksuda-islam-lima](https://www.linkedin.com/in/maksuda-islam-lima)

 <https://github.com/maksuda-islam>

 [maksudaislam@iut-dhaka.edu](mailto:maksudaislam@iut-dhaka.edu)

 +8801856455469


 House: 08, Road: 09, Dhanmondi R/A, Dhaka-1209, Bangladesh

## Work Experience

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2023/01 – present  
Dhaka, Bangladesh


### Junior Software Quality Assurance Engineer

*Nilavo Technologies (An off-shore house of Biscom Inc.)* 

- Test Automation using Playwright & Cypress
- Security testing using BurpSuite
- Validating production changes and reporting bugs
- Manual testing (Content Security Policy, Governance Settings, Multi-Factor Authentication, Outlook add-in, ADFS Server) and writing optimized test cases

2022/07 – 2022/11

### Machine Learning(NLP) Course Instructor(Part Time)

*Amar iSchool* 

Course Title: Introduction to NLP: Case Study Approach

- Content creation and Course conduction
- Made video tutorials for the students following the created content. It is the role of the Course Instructor.

2021/02 – 2021/05

### Web Developer Intern

*Nascenia Ltd.* 

- Implemented the frontend part according to the provided design of web pages ensuring the best possible user experience for users for a pilot project using Bootstrap 5 & integrated that with the backend.

## Research Experience

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2022/07 – 2023/11

### Research Assistant (Apprenticeship)

*Pioneer Alpha*

Brain Tumor Segmentation:

I collaborated with a four-person team to develop a CNN model that utilized 2D UNET as a foundation to improve the Accuracy and Dice Co-efficient Score of Brain Tumor Segmentation. I focused mainly on the improving evaluation part by fine-tuning the model.

Dental Condition Prediction:

I supervised and directed the operation of the dataset annotation process of 1000 dental x-rays to further use those data for dental condition prediction.

## Publications

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### The Integrity of Source Code Commenting: Benchmark Dataset and Empirical Analysis

*11th ICIEV & 6th IVPR, 2023*

Status: Accepted, Not Published Yet

### Brain Tumor Segmentation using Enhanced U-Net Model with Empirical Analysis

*2022 25th International Conference on Computer and Information Technology (ICCIT)*

Status: Published

**Accelerometer based Complex Nurse Care Activity Recognition using Machine Learning Approach** [!\[\]\(50ba758255c5d7cec2761495a31c7c80\_img.jpg\)](#)  
*UbiComp '21: Adjunct Proceedings of the 2021 ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the 2021 ACM International Symposium on Wearable Computers*  
Status: Published

## Education

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2018/01 – 2022/05 Bangladesh	<b>B.Sc. In Software Engineering</b> <i>Islamic University of Technology</i> CGPA: 3.35/4.00
2015 – 2017 Bangladesh	<b>Higher Secondary Certificate(HSC)</b> <i>Viqarun nisa noon School &amp; College</i> GPA: 5.00/5.00 (Awarded Government Scholarship)
2005 – 2015 Bangladesh	<b>Secondary School Certificate (SSC)</b> <i>Viqarunnisa noon School &amp; College</i> GPA: 5.00/5.00 (Awarded Government Scholarship)

## Standardized Test Scores

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**International English Language Testing System (IELTS)**  
Overall: 7.5 out of 9.0 (L: 7.5, R: 8, W: 6.5, S: 7.0)  
TRF No. 23BD009458ISLM050A

## Skills

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### Programming Languages

Python, JavaScript, C

### Framework & Libraries

Cypress, Playwright, ReactJS, Pandas, Sklearn

### Database Management

MySQL, PostgreSQL

### Security Testing

Burp Suite

### Collaboration and Management

Trello, Version Control System(GitHub)

## Professional Projects

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### Biscom SFT : Secure File Transfer

- Automate product functionalities using Playwright
- Run automation scripts
- Deploy released versions
- Manual Testing on : SFT Upgrader, SFT Outlook Add-in
- Manual Testing on : Multi-Factor Authentication

### Biscom Transit : Cloud SFT


- Automate product functionalities using Cypress
- Run automation scripts
- Deploy released versions
- Manual Testing on Transit Outlook Add-in, Encryption Tool

## Faxcom Anywhere

- Run automation scripts
- Deploy released versions
- Regression Testing for new product-versions
- Testing the On-Premise Product for Office Account & Agent


## Achievements

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2022/06	<b>Robi Datathon 2.0   A national level Hackathon by Robi Axiata</b> <i>Achieving a commendable placement within the top ~2%</i> I played the role of data analyst to answer the questions from the business prespective.
2021	<b>Third Nurse Care Activity Challenge   HASCA </b> <i>Our team became fourth and got a chance to present &amp; publish a conference paper as a book chapter</i>
2020	<b>PROJECT DEBI</b> <i>Digital art got featured in the exhibition</i>
2019	<b>BRACathon 3.0   A national level Hackathon by BRAC</b> <i>Finalist (Top 10 among 300+ participated teams in the first round)</i>

## Extracurricular Engagements

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2021/10 – 2022/09	<b>Operations Executive (Sponsorship &amp; Liaison)</b> <i>IUT Computer Society</i> From the preparation of the proposal letters for our prospective sponsors to making sure the communication is done swiftly was my job.
2019 – 2020	<b>Exchange Participant Manager </b> <i>AIESEC Bangladesh</i>
2019	<b>Organizer - Logistics and Reception, IUT 10th ICT Fest</b> <i>IUT Computer Society, Islamic University of Technology, Bangladesh</i>

## References

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**Lutfun Nahar Lota**, Assistant Professor, CSE Department, Islamic University of Technology  
lota@iut-dhaka.edu, +880 171 728 8159

**Md. Nazmul Haque**, Assistant Professor, Islamic University of Technology  
nazmul.haque@iut-dhaka.edu

**Md. Al Arman**, Software Quality Assurance Lead, Nilavo Technologies Ltd.  
arman@nilavo.com, +8801730088195

**MD Abdullah Al Nasim**, Founder and CTO, Pioneer Alpha & Amar iSchool  
nasim@pioneeralpha.com