

# Maliha Bintay Zaman

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## PROFESSIONAL EXPERIENCE

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### Research Assistant

[March, 2022—December, 2022]

Khulna University Research Cell

Khulna University, Khulna, Bangladesh

Project: **Automatic Detection and Fixing of Context-Adaptation Bugs in Code Clones**

Key Responsibilities:

1. Investigate context adaptation bugs for micro-clones and manually analyze them
2. Compare the intensity of context-bugs between regular clones and micro-clones

### Industrial Training

[June, 2022]

Information, Communication & Technology (ICT) Cell

Khulna University, Khulna, Bangladesh

Activities: Training workshops, Understanding of networks and system design with real-world implementations

## ACADEMIC CREDENTIALS

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### Bachelor of Science in Computer Science & Engineering

Khulna University, Khulna, Bangladesh

January, 2018—February, 2023

CGPA: 3.35/4.00

## RESEARCH EXPERIENCE

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### Undergraduate Research Work

[March, 2022—January, 2023]

Khulna University

Thesis Title: *"Investigating Context Adaptation Bugs in Micro-clones"*,

Supervised by Dr. Manishankar Mondal, Associate Professor, Computer Science & Engineering Discipline, Khulna University

## PUBLICATIONS

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S. Mottakin, **M. B. Zaman**, M. Mondal and A. Shome, "*Context-Adaptation Bugs in Micro-Clones*," 2023 30th Asia-Pacific Software Engineering Conference (APSEC), Seoul, Korea, Republic of, 2023, pp. 239-248,

Doi: 10.1109/APSEC60848.2023.00034

## FIELDS OF INTEREST

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- Machine Learning
- Natural Language Processing
- Artificial Intelligence
- Software Development
- Data Analysis
- Information Technology

## TECHNICAL SKILLS

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<b>Language:</b>	C++	PHP	Python	Java	
<b>Web Technology</b>	Laravel	CSS3	Bootstrap		
<b>Tools &amp; Platforms</b>	Git	SVN	Visual Studio	Matlab	Jupyter Notebook
<b>Operating Systems</b>	Windows	Linux			
<b>Database</b>	MySQL				

## PROJECTS

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- **Title:** Library Management System [July, 2019— October, 2019]  
**Project Supervisor:** Aysha Akther, Assistant Professor, Khulna University  
**Description:** An automated system for Khulna University Central Library to ensure the best interaction between users and administration regarding book issuance, returns, and tracking.
- **Title:** Homemade Product Market [September, 2020—February, 2021]  
**Project Supervisor:** Dr. SK Alamgir Hossain, Professor, Khulna University  
**Description:** A business platform for homemade commodities with integration of payment gateway SSLCOMMERZ.
- **Title:** Question Bank Simplifier [August, 2021—September, 2021]  
**Project Supervisor:** Dr. SK Alamgir Hossain, Professor, Khulna University  
**Description:** A software system for assisting teachers to automatically create exam question sets based on some parameters (i.e. difficulty level, topic and weights)
- **Title:** Smart Agriculture System [September, 2021]  
**Project Supervisor:** Atanu Shome, Assistant Professor, Khulna University  
**Description:** An automated system using Arduino and Proteus, designed to implement smart water supply control based on temperature, soil moisture and water level sensors.
- **Title:** Bengali Blog Classification According to Title [October, 2022]  
**Project Supervisor:** Dr. Kazi Masudul Alam, Professor, Khulna University  
**Description:** This project involves identifying the topic of a blog based on its title using three machine learning algorithms:
  1. K-Nearest Neighbors (KNN)
  2. Support Vector Machine (SVM)
  3. Logistic Regression

## TEST SCORES

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IELTS (6.5)			
LISTENING	READING	WRITING	SPEAKING
7.5	7	6	6

## CO-CURRICULAR ACTIVITIES:

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- **Volunteer**  
CSE FEST 2019  
Khulna University
- **Member**  
Managing Committee  
CSE FEST 2022  
Khulna University

## REFERENCES

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Dr. Manishankar Mondal [Thesis supervisor]  
Associate Professor  
Computer Science & Engineering Discipline  
Khulna University, Khulna  
*mshankar@cseku.ac.bd*

Dr. Amit Kumar Mondal  
Associate Professor  
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