

Tauseef Ibne Mamun

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SUMMARY

Ph.D. student with specialized training in both *human-computer interaction* and *behavioral psychology*. Have a *strong programming* background. Experience in advanced-level human factors engineering (*qualitative* and *quantitative*) and executing *usability* studies mainly in software and rail warning systems.

Research Tools/Methods

- Behavioral studies with human subjects
- Usability Evaluation in both real-time and simulated environments (eye-tracking, driving simulator, in-vehicle systems)
- Cognitive Task Analysis (CTA)
- Computational modeling
- Software development
- Development of R libraries for data management and interpretation

EDUCATION

Michigan Technological University Houghton, MI	
Ph.D. Applied Cognitive Science and Human Factors	Expected 2023
Michigan Technological University Houghton, MI	
Artificial Intelligence in Healthcare Certificate	2021
Michigan Technological University Houghton, MI	
MS Applied Cognitive Science and Human Factors	2019 – 2021
Ahsanullah University of Science & Technology Dhaka, Bangladesh	
BS Computer Science & Engineering	2011 – 2015

EXPERIENCES

Michigan Technological University, Cognitive and Learning Sciences Houghton, MI	
Research Assistant	2019 – Present
Tasks:	
<ul style="list-style-type: none">• User behavior analysis in autonomous driving for user-centric explanations.• Designing novel explanation methods for the human-AI teaming.• Developing computational models for naturalistic decision-making scenarios.• Behavioral analysis of drivers in rail crossings through mixed-method approach.• Assessment of the usability of new in-vehicle systems in rail crossings.	
❖ Working/Worked with Defense Advanced Research Projects Agency and Federal Railroad Administration on different research projects.	
Mighty Egg Technologies Canada/Bangladesh	
Programmer Analyst	2015 – 2018
Tasks:	
<ul style="list-style-type: none">▪ Database Design & API development.▪ Web and Mobile App Development.	<ul style="list-style-type: none">▪ Software deployment in Amazon Web Service, Digital Ocean, Heroku.
Programming Expertise	
R, Python, C, C++, Java, PHP, Ruby, PEBL	
Git: GitHub (https://github.com/tm012)	

FEATURED LEADERSHIP ROLES

- Vice President at Ahsanullah University of Science & Technology's Computer Science & Engineering Society 2014 – 2015
- Vice President at Bangladeshi Student Association at Michigan Technological University 2020 – 2021

INTERESTS

[Photography](#) | App Development | Video and Photo Editing