# Tauseef Ibne Mamun

tmamun@mtu.edu
+1 (857)-574-9931
https://tmamun.netlify.app

407 Shelden Avenue, Apt 9,
Houghton, Michigan, 49931

## 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, healthcare systems)
- Cognitive Task Analysis (CTA)
- Computational modeling
- Software development
- Development of R libraries for data management and interpretation

## EXPERIENCES

Michigan Technological University, Cognitive and Learning Sciences | Houghton, MI
**Research Assistant**                                                        2019 – Present
**Tasks:**
- 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:**
- Database Design & API development.
- Web and Mobile App Development.
- 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)

## 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

## 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