

Suzad Mohammad

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Research Interest

- Human Computer Interaction
- Social Computing
- Developer's Social Platform Analysis
- Software Engineering
- Repository Mining

Research Experience

Graduate Researcher

- **Understanding Snapchat's streak feature in grabbing human attention.** A study on *Attention Engineering* to realize how streak feature of Snapchat impact on its user and helps the platform enhance its user retention. Along with an empirical analysis, a semi-open interview session was conducted upon the users of Snapchat to get outcomes of the study.
- **Influence of social media on disaster management activities.** Impact analysis from official dataset of facebook, instagram, reddit, twitter, and youtube accumulated using *CrowdTangle* and *Netlytic*. Interaction with national disaster management agencies to understand the role and usage of social media to recover the agony.
- **Code quality analysis of ChatGPT.** Analysis of runtime, memory efficiency, accuracy, error, cyclomatic complexity, cognitive complexity, code smell, and maintainability of codes generated by chatGPT. Use of *SonarCloud* to analyze the code metrics.

Undergraduate Researcher

- **Open-source JavaScript code quality analysis.** Analysis of **200 open-source JavaScript projects and 380 developers profile** from GitHub with diver project size and developer group. The study analyzes various code metrics and compares the metrics with developer experience. A thorough investigation of top **analyzer tools** and their feasibility analysis is conducted.
- **Analyzing the environment of StackOverflow for new users of the platform.** Investigated the hurdles of new users in StackOverflow through qualitative and quantitative analysis. Inspecting the correlation of activeness of user with their hurdles. A query based quantitative analysis is done using *SQL-Server* database and official data of StackOverflow.

Publication

- | | |
|--------------|---|
| Conference | <p>An Empirical Study on Neophytes of Stack Overflow: How Welcoming the Community is towards Them</p> <p>A. Al Jobair, S. Mohammad, Z. R. Maisha, M. J. I. Mostafa, and M. N. Haque, "An empirical study on neophytes of stack overflow: How welcoming the community is towards them.," in ENASE, 2022, pp. 197–208.</p> <p>https://www.scitepress.org/Link.aspx?doi=10.5220/0011081100003176</p> |
| Book Chapter | <p>The Ugly Side of Stack Overflow: An In-depth Exploration of the Social Dynamics of New Users' Engagement and Community Perception of Them</p> <p>A. A. Jobair, S. Mohammad, Z. R. Maisha, M. J. I. Mostafa, and M. N. Haque, "The ugly side of stack overflow: An in-depth exploration of the social dynamics of new users' engagement and community perception of them," in Evaluation of Novel Approaches to Software Engineering, H. Kaindl, M. Mannion, and L. A. Maciaszek, Eds., vol. 1829. Cham: Springer Nature Switzerland, 2023, pp. 243–265.</p> <p>https://doi.org/10.1007/978-3-031-36597-3_12</p> |

Publication (continued)

- Submitted **Code Quality Analysis of Open-source JavaScript Projects on GitHub: An Empirical Study**
Suzad Mohammad, Abdullah-Al-Jobair, Iftekharul Abedeen, "Code Quality Analysis of Open-source JavaScript Projects on GitHub: An Empirical Study", Under review in "ACM Computing Survey"
- Unveiling the Code Quality Landscape of ChatGPT: An Empirical Investigation**
Suzad Mohammad, Abdullah-Al-Jobair, Md Nazmul Haque, "Unveiling the Code Quality Landscape of ChatGPT: An Empirical Investigation", Under review in "IEEE Transactions on Software Engineering"

Education

- Jul 2023 – Present **Bangladesh University of Engineering and Technology (BUET)**
Master of Science in Computer Science and Engineering
- Jan 2018 – May 2022 **Islamic University of Technology (IUT), OIC**
Bachelor of Science in Software Engineering
Dissertation under *Software Engineering (SE) Lab*
• CGPA: 3.81 / 4.00

Industry Experience

- Jun 2022 – Jun 2023 **Software Engineer**
Software Solutions and Logistics Enterprise (SSLE)
• Full-stack development with React, Ionic, .Net, Oracle
• Requirement gathering and documentation
• Testing and bug fixation
• Projects: I-Employment, Salescomm
• *Awarded for the astounding effort in 2022*

Teaching Experience

- Sep 2023 – Present **Lecturer**
Department of Computer Science and Engineering
International University of Business Agriculture and Technology (IUBAT)
• CSC 103: Fundamentals of Computers and Applications
• CSC 104: Computer Applications Lab
• CSC 183: Programming in C
• CSC 184: Programming in C Lab

Technical Skills

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|-----------------------|--|
| Programming Languages | Python, C#, Java, C, Assembly |
| Web Programming | JavaScript, TypeScript, HTML, CSS, WordPress |
| Framework/Platform | React, React Native, React Ionic, .Net |

Technical Skills (continued)

Familiar ORM	Dapper, Entity Framework, ADO.NET
Database	Oracle, MySQL, SQL Server, Firebase, PL/SQL
Familiar IDE	PyCharm, Visual Studio, Visual Studio Code, DataGrip, SQL Developer, Toad, Microsoft SQL Server Management Studio, Eclipse, IntelliJ, CodeBlocks, EMU8086
Version Control	Github, Gitlab, Bitbucket

Projects

Salescomm

- Web Application.
- *Purpose:* To generate incentives or commissions for employees and salespersons of a leading telecom company in Bangladesh. Additionally, the system creates employee channel-wise detailed performance reports on a monthly, quarterly, and yearly basis..
- *Technology:* .Net, Oracle.

Voice Controller

- Desktop Application.
- *Purpose:* To operate a computer with a human voice (English and Bengali), ensuring easy operability of the computer to every person, especially people with disabilities.
- *Technology:* Java, CMU Sphinx.
- <https://github.com/Suzad/Voice-Controller>

Hard Disk Drive Fault Predictor

- Machine Learning Project.
- *Purpose:* To predict the failure of Hard Disk Drive based on the vast dataset provided by "**PAKDD 2020 Alibaba AI Ops Competition**".
- *Technology:* PAKDD dataset, Python, Naive Bayes approach, Logistic Regression approach.
- <https://github.com/Suzad/HDDFaultPredictor>

Smart Health Tracker

- Embedded System.
- *Purpose:* To identify the fundamental insights of human health, including body temperature, blood pressure, calories burnt, humidity, etc.
- *Technology:* Proteus, Arduino, Arduino Code.
- <https://github.com/Suzad/Smart-Health-Tracker>

Blog App

- Android Application.
- *Purpose:* The authenticated user can post a blog, comment, or like a blog post.
- *Technology:* React Native, Firebase.
- <https://github.com/Suzad/BlogApp>

LAN Multiplayer Games

- Desktop Application.
- *Purpose:* Enabling a user to play the 'Reversi' game in multiplayer and single-player mode. Users can play multiplayer mode by connecting through LAN.
- *Technology:* Server Programming, Java, Min-max Algorithm.
- <https://github.com/Suzad/LAN-Multiplayer-Games>

I-Employment

- Web, Android and iOS Application
- *Purpose:* An HR management app that is currently in use by a software company to track employee attendance and their leaves as well as salary calculation.
- *Technology:* React-Ionic, Dapper ORM, .Net, Oracle.

References

Md. Nazmul Haque

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