

# Md Safwan Bin Rashid

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Computational Psychology enthusiast with focus on applying Machine Learning and Artificial Intelligence to understand and model human cognition; driven by the thought that one can solve any problem of the universe using ML/DL, as long as one can convert it into numbers (tensors) and find a pattern.

## Education

*The University of Southern Mississippi*

Aug 2024 – May 2028

**B.S. in Computer Science, Minor in Psychology**

CGPA: 3.86

**Relevant Coursework:** Data Structures and Algorithm Analysis, Computer Systems, Calculus w/ Analytical Geometry, Info Tech Project Management, General Psychology, Cyber Law and Ethics, Basic Economics

## Experience

**Research Assistant** — *School of Psychology, USM, Hattiesburg, MS*

Jul 2025 – Present

- Joined the Experimental Health Psychology Lab led by Dr. Tammy Greer to contribute a computer science perspective to interdisciplinary research exploring the intersection of mental health and emerging technologies.

**Student Worker** — *Aramark, Hattiesburg, MS*

Aug 2024 – Present

- Managing cafeteria operations; assisting with catering for campus events.

**Academic Mentor** — *Self-employed, Hybrid*

Apr 2018 – Mar 2024

- Tutored Mathematics and Science to students ranging from grades 8 to 12.

**Junior Executive** — *Energypac Power Generation PLC, Dhaka, BD*

Jul 2022 – Jun 2023

- Had the opportunity to secure a year-long role at one of the leading power engineering companies in Bangladesh. Handled the FIFO inventory system, and mostly created logistic plans.

## Projects

- **PyTorch Tabular Data Classification** (*Pilot Project*) – Built and trained a neural network in PyTorch to classify rice grain types using physical measurements. 🐙[Github]
- **EEG Signal Processing** (*Pilot Project*) – Developed MNE-Python pipeline for P300 event-related potential extraction and visualization. 🐙[Github]
- **AVL Student Database** (*DSA307*) – Built an AVL-tree-based student record system with  $O(\log n)$  insert, delete, and search operations. 🐙[Github]
- **QuizGame** – Built an interactive web-based quiz with a clean three-screen interface, dynamic question rendering and score tracking. 🐙[Github]
- **Alumni Networking Platform V1.0** (*ITC371*) – Created the full project plan outlining structure, management, and execution for an alumni networking system.
- **Immutable Criminal Record Keeping with Blockchain** (*BCOLBD '23*) – Represented Team Genesis and developed a whitepaper and poster proposing a Hyperledger Fabric-based evidence management system with secure, permissioned access control.

## Ongoing Research Projects

- Stimulating Belonging Through AI To Address Imposter Syndrome and Enhance Cultural Integration Among International Students
- Locus of Control in Virtual World: How Online Racial Discrimination Affects Substance Abuse
- Screen Time, Attention Control, Stress, and Social Functioning: The Psychological Correlates of Smartphone Dependency in College Students
- Dual Burden of Digital Dependency: Night Eating Syndrome and Body Dissatisfaction
- Imposter Syndrome Among Students of Color: The Role of Perfectionism and Emotion Regulation

- Loneliness as a Moderator: Demographic Differences in Sugar-Sweetened Beverage (SSBs) and Mental Health
- Do Social Support and Healthcare Perception Matter? Examining Stress and Depression Among Individuals with Diabetes and Hypertension
- Healthy Minds; Healthy Lives: How Mental Health Communication Promotes Healthy Lifestyles
- Perception of Weight Management: Examining the Influence of Biological, Behavioral, Environmental, and Pharmacological Factors
- Health Faith and Morality: Understanding Predictors of HIV Stigma and Suicide Attitude
- Sweetness in Sips: The Relationship between Individual Difference Factors and Preferred Level of Sweetness
- How Coping and Social Support Shaped Mental Health of Bangladeshi in the USA during the 2024 Student Protests in Bangladesh
- A Triadic Model of Cultural Adaptation: The Role of Food Neophobia and Cultural Intelligence on Cross-Cultural Adjustment

## Forthcoming Conference Proceedings

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- Eating and Drinking During Emotional Distress: How Coping Styles Shape Sugar-Sweetened Beverage (SSB) Consumption and Emotional Eating, **90th Annual MAS (Event Date March 19-20, 2026)**
- Gynecological Health Disparities and Mental Health Outcomes Among Minority Women, **72nd Annual Meeting, SEPA (Event Date March 25-28, 2026)**

## Involvement

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| • Volunteer — Purnota Foundation                               | Feb 2024 – Present     |
| • Event Coordinator — Bangladeshi Student Association (BSA)    | August 2024 – May 2025 |
| • French Instructor — DPT Foreign Language Club — DP Tutorials | June 2023 – March 2024 |

## Awards & Achievements

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- Dean's List (Fall '24, Spring '25) — School of Computing Sciences and Computer Engineering
- Delegate '24 — Global Peace Chain
- Academic Excellence Scholar '23 (4 years)
- Semi-finalist — ClimateScience Olympiad '23
- Valedictorian (Class of '22) — Willes Little Flower School & College
- Head Boy (Letter of Commendation) — Willes Little Flower School & College

## Language

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English (C2), French (B1), Urdu (B1), Bengali (Native)

## Skills

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- **Programming Languages:** C, C++, Python
- **Database:** MySQL
- **Machine Learning:** PyTorch, Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn
- **IDE:** Colab, Jupyter Notebook, VSCode, PyCharm, Xcode, Code::Blocks
- **SWE:** Git, Data Structure & Algorithm, HTML5, CSS3, JavaScript
- **Others:** Academic Research, Competitive Programming, AutoCAD, Microsoft Office

## References

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**Dr. Tammy Greer**

Associate Professor, School of Psychology

The University of Southern Mississippi

Contact: Tammy.Greer@usm.edu

*More References available upon request.*