

Tassen Raihan Trima

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EDUCATION

Bachelor of Science in Computer Science (Machine Learning Emphasis)
Boise State University, Boise, ID

May 2028
GPA 3.75

SKILLS and INTERESTS

- **Languages & Tools:** Python, Java, SQL, HTML, Git, React, Angular, Node.js, Xcode, VSCode
- **Specialized Skills:** Web Scraping, NLP, Data Analysis
- **Certifications:** Web Scraping with Python, AI Workshop: Advanced Chatbot Development, Python Data Structures & Algorithms
- **Hackathons:** Girls Who Hack; Red Hat & Intel AI Hackathon; Milestone College Future Coders
- **Organizations:** WomenTech Network, Girls Who Code, Girls in Tech, AnitaB.org

RESEARCH PAPERS

- **Name Gender Inference in Text: Methods, Applications, and Challenges.** Sudeshna Das, Namita Bajpai, Sayantan Saha, Debjani Mazumder, Tassen Raihan Trima, Sahithi Lakamana, Jiaul H Paik, and Abeed Sarker [*work-in-progress*]
- **Thematic Analysis of Reddit Chatter On GLP-1 Receptor Agonists.** Sudeshna Das, Tassen Raihan Trima, Yuting Guo, Sahithi Lakamana, and Abeed Sarker [*work-in-progress*]
- **Taxonomy of Bias in Medical Text.** Zhe Zhou, Sudeshna Das, Tassen Raihan Trima, Swati Rajwal, and Abeed Sarker [*work-in-progress*]

TECHNICAL EXPERIENCE

Volunteer Research Assistant (remote)

Computer Science and Biomedical Informatics, Emory University, Dekalb County, GA Dec 2024 - Present

- Collaborate with an Associate Professor on review papers
- Collect data sets and utilize Python to clean data sets
- Participate in weekly research team meetings to provide updates on projects
- Utilize Overleaf Latex to create tables for research papers

Math Tutor

Boise State University, Boise, ID

Sept 2025 - Present

- Tutor undergraduate students in subjects ranging from college algebra through multivariable calculus.
- Lead both one-on-one and group sessions, breaking down complex concepts into approachable steps to strengthen problem-solving and mathematical reasoning.
- Develop supplemental problem sets and review materials, helping students improve exam performance and overall course grades.

IT Web Developer

Gettysburg College GTech Center, Gettysburg, PA

Sept 2024 - April 2025

- Maintained web applications for Gettysburg College's GTech Center using TypeScript and Java.
- Delivered technical support by diagnosing and resolving hardware, software, and network issues, improving response time by 20%.

IT Student Assistant

Milestone College ICT Center, Dhaka, Bangladesh

Jan 2021 - Aug 2023

- Managed the setup of computer labs ensuring smooth operation of technical equipment and timely troubleshooting to minimize downtime by 36%.
- Conducted system maintenance tasks including software updates, patch management, and security vulnerability tests contributing to enhanced reliable and secure system performance.

LEADERSHIP EXPERIENCE

- **Project Coordinator, Aachol Foundation:** Directed a team of 10 volunteers in organizing community outreach programs, including event planning and execution.
- **Student Leader, Milestone College:** Collaborated with student leaders from 15 different clubs to coordinate events and initiatives, fostering a more unified and engaged campus community.
- **Event Coordinator, Ashia Foundation:** Managed and led the logistics team of 7, including venue selection, scheduling, and resource allocation, to ensure the smooth running of each event.

PROJECTS

[Quote Generator Web Application](#)

Sept 2025

- Independently developed an interactive web application that dynamically fetches and displays random quotes, with options to refresh and explore new content.
- Implemented responsive UI components and state management to ensure smooth user experience across devices.

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- Integrated external API calls for live data, replacing deprecated services with reliable endpoints to maintain functionality.
- **Tools:** React, TypeScript, Vite, TailwindCSS, DummyJSON API

[RedditScraper on AI public sentiment](#)

Sept 2024

- Scraped approximately 27,000 Reddit posts and comments related to Google LLM and Gemini, producing a structured dataset for sentiment analysis.
- Applied natural language processing techniques to assess public sentiment and visualize discussion trends through time-series analysis, histograms, and word clouds.
- Automated data cleaning, transformation, and export workflows to ensure reproducible results and streamlined analysis.
- **Tools:** Python, PRAW, Pandas, Matplotlib, TextBlob, WordCloud

[Scrabble Showdown](#)

July 2023

- Developed an interactive Scrabble-like word game that calculates player scores based on letter values and announces the winner in real time.
- Won the “**Rapid Fire Coder Award**” from Milestone College for creating this project in under 1 hour.
- **Tools:** Python, Git, VSCode