

Tanzeel Rahman

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EDUCATION

Bachelor of Science in Computer Science with Honors - University of South Florida

May 2027

Judy Genshaft Honors College

GPA: 3.86/4.00

Relevant Coursework: Data Structures and Algorithm, Computer Architecture, Natural Language Processing

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, C/C++, C#

Web Development: React.js, Node.js, Express.js, HTML5, CSS3, PostgreSQL, RESTful APIs

AI & Machine Learning: PyTorch, Scikit-learn, Streamlit, Pandas, NumPy

Tools & Frameworks: Git, GitHub, Unity, Vercel, Tableau, Docker, Postman, AWS, Microsoft Powerapps

EXPERIENCE

Undergraduate Research Assistant, EnCoDe Research Lab, University of South Florida

August 2024-Present

- Building a **Unity**-based application using **C#** to dynamically adjust car music volume based on speed, enhancing driver safety.
- Optimized application response time to under **100** milliseconds, ensuring seamless real-time adjustments.
- Collaborating with psychology researchers to support a study on auditory stimuli and driver behavior for peer-reviewed publication. (**Human-Computer Interaction**)

Software Engineer Intern, BTCL (Bangladesh Telecommunications Company Limited)

May - August 2024

- Developed and optimized internal web applications using **React.js**, **Node.js**, and **Express.js**, improving user experience for **500+** daily users.
- Designed and managed relational databases with **PostgreSQL**, enhancing data retrieval speed by **30%**.
- Documented specs and reviewed code, improving code quality and compliance by **15%** and reducing bugs by **10%**.

Research Assistant, Dr. Ahsanul Kabir, Khulna University, Bangladesh

January - May 2022

- Aggregated data from **10+** sources, generating **20+** tables, charts, and graphs to analyze transport emissions.
- Conducted **8** learning sessions on NDC, enhancing understanding of climate change initiatives among peers.

Student Assistant (Remote), TH Köln (University of Applied Sciences), Germany

June - October 2021

- Authored an SRS document based on insights from **3** user workshops, enhancing system specifications.
- Collaborated with a team to launch a **web-based system**, leading to a **30%** increase in decision-making efficiency.

PROJECTS

Iris Flower Classification | Python, PyTorch, Scikit-learn, Pandas, Streamlit, Git, GitHub

- Developed a machine learning model to classify Iris flower species using **Python**, **PyTorch**, and **Scikit-learn**.
- Compared the performance of **logistic regression**, **k-NN**, and **decision tree** models, optimizing accuracy through **cross-validation**, achieving **94%** accuracy.
- Built and deployed an interactive **Streamlit** app for real-time species prediction based on user input.
- GitHub:** github.com/zinels/Iris-flower-Classification

Faculty-Finder | React.js, Node.js, Express.js, PostgreSQL, SQL, Vercel, Git

- Developed a **full-stack** platform using **React.js**, **Node.js** and **Express.js** to review and rate professors in Bangladesh.
- Utilized **PostgreSQL** and **SQL** for efficient data management, enabling real-time updates and smooth user interactions.

Reddit Scraper | Python, PRAW, SQL, PostgreSQL, Pandas, Git

- Built a **Python**-based scraper using **PRAW** (Python Reddit API Wrapper) to efficiently extract and analyze data from multiple Reddit subreddits.
- Stored and managed extracted data in a **PostgreSQL database**, enabling seamless querying, analysis, and reporting.
- GitHub** : https://github.com/zinels/Reddit_scraper

COMMUNITY SERVICE AND LEADERSHIP

Co-founder, Support in Crisis

April 2020- July 2023

- Managed a team of **50** volunteers, overseeing their activities and ensuring food support for **10,000+** individuals during COVID-19.
- Raised **\$3000** in funds through an active Facebook page: www.facebook.com/supportInCrisis