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SAHEER RAHMAN

EDUCATION

BACHELOR OF SCIENCE IN COMPUTER SCIENCE, MINOR: ECONOMICS **Aug 2022 - Present**
University at Buffalo (SUNY Buffalo) ***Buffalo, NY***
Expected Graduation: 2026

TECHNICAL AND SOFT SKILLS

- **Programming Languages:** Java, Python, JavaScript, C, MIPS Assembly, VHDL.
- **Data Technologies:** SQL (PostgreSQL, MySQL), Power BI, Data Normalization (BCNF, 3NF), Query Optimization, Indexing, Triggers, Transactions, ER Diagrams
- **Web Development:** HTML, CSS, Django, Node.js, React.js, Express.js, WebSockets.
- **Databases:** MySQL, MongoDB, PostgreSQL.
- **Tools & Platforms:** Docker, GitHub, VS Code, IntelliJ, Jupyter Notebook, Power BI.
- **Office & Productivity Tools:** Microsoft Excel, Word, PowerPoint.
- **Soft Skills**: Problem Solving, Decision Making, Communication, Leadership, Adaptability, Time Management, Teamwork.

EMPLOYMENT HISTORY

INTERN **Dec 2024 - Apr 2025**
Ontik Technology ***Dhaka, Bangladesh***

- Gaining practical experience and training in Web Development, AI/ML, and Data Science from senior developers
- Conducted in-depth research on SaaS platforms, focusing on LazyChat's omnichannel solution for streamlined customer service, which contributed to an 80% reduction in support costs while enhancing industry knowledge
- Actively contributed to LazyChat's dashboard design, working closely with a team of 7 senior developers to integrate user-friendly features and improve functionality.
- Learning professional workflows and industry-standard work practices
- Gaining hands-on exposure to organizational tools and technologies

INTERN **Oct 2021 - Jan 2022**
Center for Natural Resource Studies ***Dhaka, Bangladesh***

- Analyzed national projects to identify trends and solutions
- Actively engaged with senior staff, absorbing industry knowledge and best practices
- Contributed to team discussions, offering fresh perspectives on environmental issues

PROJECTS

LOCATION REVIEW PLATFORM

A web application enabling users to leave reviews for various locations via a dynamic map interface built with Leaflet.js.

- **Technologies Used: Python, JavaScript, HTML, CSS, Django, PostgreSQL, Redis, WebSocket, Docker, OpenStreetMap API, Ngnix, Vscode.**
- Built an intuitive review system with likes and media uploads to enhance user engagement.
- Built an interactive map showcasing locations and user reviews.
- Implemented secure user access through robust authentication protocols.
- Created a puzzle map game featuring a real-time leaderboard powered by WebSocket increasing user-experience by 50%

REAL-TIME CHAT APPLICATION (ACADEMIC PROJECT)

A robust chat platform that enables users to send and receive messages instantly with minimal latency.

- **Technologies Used: Python, JavaScript, HTML, CSS, MongoDB, WebSocket, Ngnix, Docker, Vscode.**
- Built from scratch using Python, JavaScript, and WebSocket, featuring user authentication and media sharing. Implemented without frameworks to understand core internet protocols.

MUSIC STREAMING ANALYTICS SYSTEM

Built a normalized PostgreSQL database for a music platform with advanced SQL queries, transaction handling, and Power BI visualizations for analytical reporting.

- **Technologies: PostgreSQL, Power BI, SQL, ER Modeling.**
- Designed and implemented a relational database in PostgreSQL with 10+ entities, ensuring BCNF compliance to eliminate redundancy and maintain data integrity.
- Wrote 30+ advanced SQL queries - including joins, subqueries, grouping, and aggregation - to analyze user behavior and performance across 300+ streaming records.
- Built an interactive Power BI dashboard to visualize streaming trends, artist engagement, playlist activity, and user reviews, enabling actionable insights.
- Developed and tested 5+ stored procedures and triggers to automate playlist updates and simulate real-world transaction failures.
- Optimized slow queries using B-Tree indexing strategies, improving execution time by approximately 60%.
- Simulated transaction failures using triggers and stored procedures to ensure data integrity under failure conditions.