Towhidur Rahman Asif

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EDUCATION

B.Sc.(Eng.) in Software Engineering   **March 2022 – Present**
Shahjalal University of Science And Technology
Coursework: DSA, OOP, Design Patterns, Computer Networking, Operating System

Technical Skills

Languages: C/C++, JavaScript, Python, Java, SQL
Frameworks & Libraries: React.js, Express.js, Tailwind CSS
Data Science & ML: NumPy, Pandas, Matplotlib
Database: MySQL, PostgreSQL, MongoDB
Tools & Technologies: Node.js, Git, Postman, Cloudinary, Selenium, Vercel, Render, Jira

PROJECTS

PSYCARE - ONLINE MENTAL HEALTHCARE   [GitHub]
Tech stacks: React.js, Node.js, MongoDB, WebRTC, Gemini APIs, JWT, Tailwind CSS
- Built a responsive user interface with React and Tailwind CSS, integrated with backend services.
- Integrated RESTful APIs for secure authentication, anonymous problem posting, and real-time video session management.
- Developed dynamic, role-based interfaces with interactive filtering, dashboards, and AI-powered suggestion displays.

MESSEASE-A MESS MANAGEMENT SYSTEM   [GitHub]
Tech stacks: React.js, Node.js, Express.js, MongoDB, JWT, Tailwind CSS, Vercel, Render
- Built a multi-tenant mess management app with role-based access for managers and members.
- Developed a secure REST API (Node.js/Express) with JWT, partitioning all the CRUD data between different messes.
- Built a responsive React UI featuring distinct dashboards and an automated monthly settlement calculator.

AI-SHOMACHAR   [GitHub]
Tech stacks: Node.js, Express.js, MongoDB, React, JWT, OpenAPI
- Integrated AI APIs like OpenAPI and Replicate AI to generate text, image, video, and music.
- Implemented core SaaS functionalities including a custom JWT-based authentication system.

BOOK RECOMMENDER SYSTEM   [GitHub]
Tech stacks: Python, Flask, Pandas, Scikit-learn, NumPy, Bootstrap
- Built a responsive UI with Bootstrap to feature top books and user recommendations.
- Utilized Pandas and NumPy for data wrangling and feature engineering.

TABPULSE   [GitHub]
- Developed a Chrome extension to intelligently auto-suspend inactive tabs with customizable thresholds and whitelist/blacklist controls, improving CPU and memory efficiency while ensuring user-friendly tab management.

ACHIEVEMENTS

- Completed the **Python Programming and Data Science** course, a training under the EDGE Project, BCC, ICT Division.
  | Certificate   Dec '24 – Feb '25
- Selected among the top 5 innovative projects, earning the opportunity to present alongside top teams from SUST in **University Innovation Hub Program(UIHP)**   Mar '25

Experience and Volunteering

Volunteer — Technovent-2022 (SUST IUPC organizing team)

- Set up and configured 30 Ubuntu workstations with required software and network access.

- Provided live technical support to 40+ participants, resolving 10+ on-site technical and procedural issues.