

Rizvan Jawad Ruhan

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EDUCATION

Bangladesh University of Engineering & Technology

Bachelor of Science in Computer Science and Engineering (CGPA: 3.78)

Dhaka, Bangladesh

2019 - Present

PROJECTS

OnCampus | React, TypeScript, Express, Prisma, PostgreSQL

[Frontend](#) | [BackEnd](#)

- An online platform designed for sharing posts, aimed at reducing students' reliance on social media by providing a dedicated space for academic and campus-related interactions.
- It features event and notice management and notification management system. It also includes a virtual tour of our BUET ECE campus.
- KeyCloak API was used for authentication & authorization purposes.

TravelBNB | JS, Express, EJS, OracleDB, PL/SQL, CSS

[Code](#)

- a web application inspired by Airbnb, allowing users to book accommodations, manage listings, and view properties.
- includes features such as JSON token-based user authentication and session management, property management, and search functionality

MooMarket | Information System Design | JS, Express, EJS, OracleDB, PL/SQL, CSS

[Code](#)

- an online platform for buying and selling cattle and cattle meat, where sellers can post advertisements and buyers can search and fulfill their needs based on those ads.
- features a bidding system for cattle sales and an order posting feature for buyers to purchase products in bulk

Securus Domus | MicroController Project | IoT, Arduino, ESP

[Code](#)

- Developed a home security system featuring gas and flame detection that immediately alerts the owner via phone calls, alongside an intruder detection mechanism using lasers.
- features an automatic water pump and gardening system with humidity sensors, and a voice-controlled service to turn lights on/off, creating a smart and automated living environment.

SensorX | Java, AndroidStudio

[Code](#)

- an Android app for recording accelerometer, gyroscope and other sensor readings to track different activities, ensuring accurate data collection and analysis.
- includes features for local and remote storage of records, along with a foreground service for keeping the app running even when the phone is locked.

Fantasy Premier League | Java, JavaFX

[Code](#)

- A simple player management and transfer system which maintains player information and allows clubs to buy and sell players in real-time
- OOP, Threading, & Networking concepts were used.

RESEARCH EXPERIENCE

Gender and Age Prediction monitoring walk patterns Using Smartphone Sensors and Using Machine Learning Approaches[Undergrad Thesis]

Supervisor: Dr. A.K.M. Ashikur Rahman, CSE, BUET

Jan 2024 – Present

- Extracted key features from smartphone sensor data and applied various machine learning models to determine the most accurate algorithms for gender and age prediction

TECHNICAL SKILLS

Languages: C/C++, Java, Python, JavaScript, HTML, SQL, LaTeX

Frameworks: React, Next.js, Node.js, Express, Prisma, EJS, Tailwind

Tools: Git & Github, VS Code, AndroidStudio, Figma, Postman

Databases & Cloud: PostgreSQL, Oracle, MongoDB, Azure

Machine Learning: Scikit-learn, Tensorflow