Nusrat Jahan Nishat

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EDUCATION

Rajshahi University of Engineering & Technology   2019 - 2024

- B.Sc. in Electrical and Computer Engineering (ECE)
- CGPA: 3.65
- Courses included (but not limited to): Computer Programming, Object Oriented Programming, Data Structure and Algorithms, System Design, Operating System (OS), Neural Network, Computer Networks, Assembly Languages, Database, Digital Image Processing etc.

My Portfolio| *Link*

TECHNICAL STRENGTHS

Programming Language: C, C++, Python, MATLAB.

Web Development: HTML, CSS, JavaScript, TypeScript, React.js, Next.js, Bootstrap, Tailwind CSS, Daisy UI, Material UI, React Router, Axios, TanStack Query, Node.js, Express.js, Firebase, JWT.

Database: MySQL, MongoDB.

Others: Git, Machine Learning, Postman, Jira, Autocad, Cisco Packet Tracer, COMSOL Multiphysics.

PROJECTS

Grocery Shop *Source Code*, Live Link

- React, React Router, Firebase, Node.js, Express.js, Tailwind CSS, Daisy UI, Mongodb, Axios, JWT.
- **Features include:** Complete responsive e-commerce website with secure firebase authentication, product management with categorized display, dynamic cart functionality and checkout process. Implemented private routes for authenticated access, with all data managed in MongoDB. Backend functionalities contain user management, product listings, cart operations, order processing and contact form submissions.

Event Management | *Source Code*, Live Link

- React, React Router, Firebase, Node.js, Express.js, Tailwind CSS, Daisy UI, Mongodb.
- **Features include:** Secure user authentication with Firebase, dynamic event booking and a responsive design. Detailed event pages, past event records, a services section with packages and pricing, protected routes for authenticated users and a custom API for real-time data management.

Student Job Website | *Source Code*, Video

- HTML, CSS, JavaScript, TypeScript, PHP, Bootstrap.
- **Features include:** Split authentication for Job seekers and Employers. Job seekers post jobs; students apply. Categorize jobs by location and type; Separate sections for CV submissions and employer training.

EXPERIENCE

Problem Solving: Solved 500+ data structure and algorithmic problems.

Company Attachment Program: Participated in a 15-day industrial attachment program focused on Machine Learning methodologies and applications at Code Studio, gaining hands-on experience in data preprocessing, model development, and algorithm implementation under the guidance of industry experts .   Certificate

Participation: NGPC Contest 2019 and 2023, NASA Space Apps Challenge Bangladesh 2023, Member at RUET Anaytical Proogramming Lab, Executive Member at RUET Career Forum, Vice President at Chittagong Engineering Students' Association(CESA), RUET.

Volunteering: Technical Team Member at Technocracy 2019 arranged by ECE, RUET.

ACHIEVEMENTS

2nd Runner up at Nasa Space Apps Challenge Bangladesh, 2023

- A Web App based on MARS (Team Mars Marvel)   Certificate

THESIS WORK

Skin Disease Detection using Deep Learning and Image Processing

- Used Python and Tensorflow; Detects 4 different skin diseases; Accuracy 95% .
- Model used : VGG16, ResNet50.