Noushin Pervez

Junior Software Engineer

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in /noushinpervez 🔗 portfolio | ● Dhaka, Bangladesh

Career Objective

An analytical thinker and detail-oriented individual with a flair for problem-solving, coding and practical experience in building interactive, responsive web applications. Seeking an opportunity to apply technical skills, collaborate with cross-functional teams and continuously learn and grow in the tech field.

Skills

Frontend: HTML, CSS, React, Next.js, Tailwind CSS, Material UI, Framer Motion
Backend: Node.js, Express.js, RESTful API, MongoDB, Mongoose, PHP
Programming Languages: JavaScript, Python, Java, C, C++, MATLAB, SQL, MySQL
Tools & Platforms: Linux, Docker, VS Code, Git, GitHub, Figma, Firebase
Data Science & ML: OpenCV, Pandas, NumPy, Scikit-learn, TensorFlow, Data Visualization
Others: API Integration, Debugging, Team Collaboration, Responsive Design, UI/UX Implementation
Languages: Bangla (Native), English (Professional)

Competitive Programming

Problem-Solving: Solved 150+ algorithmic problems and participated in university and online programming contests on Codeforces, VJudge, CodeChef, and AtCoder.

Experience

Junior Software Engineer — November 2024 – Present (Probation: 3 months)
Raktch Technology and Software — Dhaka, Bangladesh

- Developed user-requested features using **Next.js**, **React** and **Material UI**.
- Collaborated with backend developers to **integrate RESTful APIs**, **implement user authentication and authorization** and ensure secure and efficient **data flow**.
- Contributed to key projects including the **HRM platforms**, **MEAL System**, **Tuition Website** and an **eCommerce system**, by implementing new features and improving functionality.
- Built functional frontend prototypes using mock data to showcase key features to clients prior to backend integration.
- Adapted quickly to unfamiliar technologies such as **Laravel**, **PHP** and **Docker** to work independently on existing systems.

Projects

Dwello – Property Rental Platform   Live Site   GitHub

Developed a property rental platform using Next.js to allow users to browse and manage listings.

- Implemented user authentication with NextAuth through Google to manage profiles and favorites.
- Developed a filter-based search system and related property suggestions to improve user experience.
- Integrated real-time messaging between users and property owners for inquiries.

Technologies: Next.js, MongoDB, NextAuth, Mongoose, Framer Motion, Next Themes, Leaflet, Tailwind CSS

Scholarship Portal BD – Scholarship Application Platform   Live Site   Client   Server

Designed and implemented a platform for students to search, apply for and track scholarship applications.

- Role-based dashboards for students, moderators and admins with distinct permissions and workflows.
- Integrated Stripe for secure payment processing during the scholarship application process.

- Added a feedback system for communication between students and moderators.

Technologies: React, Node.js, Express.js, MongoDB, Firebase, Tailwind CSS, Axios, TanStack Query, React Hook Form, Stripe Payment Gateway

2rism360 – Travel and Tourism Platform   [Live Site](#)   [Client](#)   [Server](#)

A web application for showcasing tourist spots across Southeast Asia.

- Developed features for users to discover, filter and explore tourist attractions.
- Users can contribute by adding new locations.
- Centralized travel information.

Technologies: React, Node.js, Express.js, MongoDB, Firebase, Tailwind CSS, Swiper, Material Tailwind, React Hook Form

Intrusion Detection (CIC-IDS2017)   [GitHub](#)

Analyzed over 2.8 million network traffic records to build machine learning models for classifying intrusions.

- Used data preprocessing techniques to clean the dataset and balance data distribution through methods like PCA and SMOTE.
- Achieved high detection accuracy by optimizing machine learning models and evaluated model performance using accuracy, recall, F1-score and confusion matrix metrics.

Technologies: Python, Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Imbalanced-learn

EDUCATION

East West University   Dhaka, Bangladesh
B.Sc. in Computer Science and Engineering; **CGPA: 3.61/4.00**   2020 – 2024

- **Thesis:** Deep Learning-Based Bilingual Text Summarization and Neural Machine Translation for Finance and Economics News

ACHIEVEMENTS

Dean's List, Spring 2023 – Achieved a CGPA of 3.75+ out of 4.00 for three consecutive semesters (Spring 2022 – Fall 2022).

ACCEPTED MANUSCRIPTS

Noushin Pervez, Angon Bhadra Antu, Ariful Islam Fardin, Md. Arham Islam Khan & Ahmed Wasif Reza (2024). **Classification of Acute Lymphoblastic Leukemia Based on White Blood Cell Segmentation**. Accepted for **oral presentation** at the **International Conference on Data Mining and Intelligent Systems (ICDMIS 2024)** and **forthcoming publication** in **Springer LNNS Series**.

CERTIFICATIONS

Neural Networks and Deep Learning   [Certificate](#)
DeepLearning.AI   September 2023