Mirza Hasan

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CAREER OBJECTIVE

- To build innovative and user-friendly software solutions while continuously learning and growing as a developer. As a recent graduate from United International University (UIU), I aim to contribute to meaningful projects, collaborate effectively with teams, and create applications that make a positive impact.

EDUCATION

- **United International University**   United City, Madani Ave, Dhaka 1212
  Bachelor of Science in Computer Science and Engineering ; CGPA: 3.61   *Jan. 2020 – Nov. 2024*

- **Shahid Bulbul Government College**   Ataikula Rd, Pabna 6600
  Higher Secondary Certificate; GPA: 4.64   *Jun.17 - April 19*

EXPERIENCE

- **ScaleUp Ads Agency**   Banasree, Dhaka
  Backend Developer   *December 2024 - Present*

  My primary responsibility is to design, develop, and maintain both the frontend and backend of web and mobile applications. On the backend, I focus on creating robust server-side architectures, managing databases for efficient data storage and retrieval, and writing optimized server-side logic to ensure high application performance, scalability, and security. On the frontend, I collaborate with the team to build user-friendly interfaces and ensure seamless integration with the backend through well-documented APIs. I implement best practices such as authentication, authorization, error handling, and responsive design to deliver high-quality, scalable, and secure solutions.

- **Scout Participant**   Santhia, Pabna
  Lead, Tech   *November 2016 - December 2016*

  In 2016, I actively participated in scouting activities, which helped me develop essential skills like teamwork, leadership, and problem-solving. Through various events and tasks, I learned the value of discipline, collaboration, and contributing to the community. This experience played a significant role in shaping my adaptability and resilience.

ACHIEVEMENTS

- **Champion,Software Lab ,CSE Project Show Fall '24**: Organized by United International University
- **Champion,SAD Lab, CSE Project Show Fall '23**: Organized by United International University
- **Champion,DBMS Lab, CSE Project Show Fall '22**: United International University
- **participate, 2024 6th International Conference on Electrical Engineering and Information Communication Technology** : 2024, Dhaka

PROJECTS

- **DocLink**   GitHub|
  TypeScript, React Native, React, MySql
  * Patients can easily keep a record of their medical history, including past illnesses, treatments, and prescribed medications, all in one place.
  * The app includes a feature for disease classification, enabling patients to input symptoms and receive insights about possible conditions. This helps users understand their health better and seek medical advice when necessary.

- * Patients can set reminders for taking their medications on time. This feature ensures better adherence to prescribed treatments and helps improve health outcomes.
- * The app integrates an OCR (Optical Character Recognition) feature, allowing doctors to upload handwritten prescriptions. The system detects and converts the handwriting into digital text.
- **UIU Counselling Hour** Github |
  PHP, MySql , Html, CSS
  - * Students can book counseling sessions with teachers to seek guidance and support on academic or personal matters.
  - * Teachers can set and manage their available counseling hours, making it easy for students to schedule sessions during appropriate times.
  - * Students can select their respective sections and courses to view relevant information about their academic activities.
  - * Students can see a list of all participants enrolled in their section.
- **ShopifyFrontend** Fronted |
  Demo *React,Tailwind Css*
  - * Create a user-friendly interface to showcase various travel packages, including flights, hotels, tours, and activities. Each package should have detailed descriptions, images, and pricing information.
- **Brain Tumor Prediction** Github |
  TensorFlow , Python
  - * The brain tumor prediction model developed using the Swin Transformer achieves an impressive total accuracy of 98.93%. Swin Transformer, a type of vision transformer (ViT), leverages its hierarchical structure to capture both local and global information.
- **Wild Fire Detection** Github |
  TensorFlow , Python, 2D CNN with Attention
- The model is trained on a diverse dataset of satellite images containing both wildfire and non-wildfire scenarios. The accuracy of 95.51% reflects the model's ability to correctly predict the presence of wildfires while minimizing errors, ensuring a reliable early-warning system

PUBLICATIONS

PyroVision: A Deep Learning Based Model for Wildfire Detection in Satellite Imagery
Published In: 2024 6th International Conference on Electrical Engineering and Information Communication Technology , Dhaka.
Shoukat Alam Sifat, Mirza Hasan, Santi Brata Nath Joy, Md. Ahashan Habib, Raiyan Rahman.
"We introduce Pyro Vision, a novel detection system using Convolutional Neural Networks (CNN) with attention mechanisms, achieving a 95.51% accuracy rate. Pyro Vision effectively detects both individual wildfires and affected regions, enhancing environmental.

SKILLS

Programming Languages: C, C++, JavaScript, TypeScript, Python, PHP.
Frontend Development: React, Next.js, Tailwind CSS, Redux, Bootstrap, Three.js.
Backend Development: Express, MongoDB, Mongoose, MySQL, JWT.
Research: Deep Learning, Machine Learning, Digital Images Processing.
Soft Skills: Public speaking, Playing chess, Reading books.
Project Management: Jira.

REFERENCES

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