Emam Hasan

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EDUCATION

- **United International University** *2020-2024*
  Bachelor of Science in Computer Science and Engineering United City, Madani Avenue, Dhaka 1212

  – CGPA: **3.63** (124/137 credits)
  – Merit-based scholarship: **50% - 3 times**, **25% - 4 times** .
  – Thesis topic: Chittagonian dialect to Standard Bangla voice conversion.
  – Relevant Coursework: • Data Structures and Algorithms •Artificial Intelligence • Web Programming • Basic Graph Theory • Machine Learning • Bioinformatics •Psychology •Accounting.

PROGRAMMING CONTESTS

Achievements

– UIU Coders' Combat 3.0: Secured **4th** place out of **200 participants** | **Ranklist**
– 2023 ICPC Asia Dhaka Preliminary Contest: Secured **250th** place out of 2600 teams | **Certificate**
– 2022 ICPC Asia Dhaka Preliminary Contest: Honorable Mention | `Certificate` .
– 2021 ICPC Asia Dhaka Preliminary Contest: Honorable Mention| **Certificate**
– 2020 ICPC Asia Dhaka Preliminary Contest: Honorable Mention | `Certificate`
– SRBD Contest(2023): Qualified for Round 2 and achieved a rank of **306 out of 1500**+ participants | `Ranklist`
– Codeforces Round 827 (Div. 4): Secured **2392th** place out of **34321 participants**
– CodeChef Starters 18 Division 3: Secured **119th** place out of **7325 participants**

Online Judges | `Stopstalk Profile`

– Codechef : `ehasan302` | Highest Rating: **1578** | Solved **112+ problems** |Participated in **27+ contests**
– Codeforces : `F_O_Y_E_Z` | Max Rating: **Pupil, 1229** | Solved **1066+ problems** |Participated in **188+ contests**
– AtCoder : `emam_hasan` | Max Rating: **278-Kyu** | Solved **173+ problems** |Participated in **36+ contests**

TECHNICAL SKILLS & INTERESTS

Languages: C, C++, PHP, Javascript, Java, HTML, CSS, SQL.
Frameworks/Developer Tools: Laravel, Bootstrap, Git and GitHub, LaTeX.
Databases: Mysql,Firebase.
Soft Skills: Problem-solving, Leadership.
Project Management Tool: Jira
Areas of Interest: Machine Learning, Bioinformatics, Natural Language Processing.

PROJECTS

- **Cinephiles** | ⌂ *April 2023*
  Web app for movie enthusiasts with exploration, lists, watch parties, and a vibrant community.

  – **Tools & technologies used**: Laravel,PHP, JavaScript, Ajax, MySQL, HTML, CSS
  – Led a dynamic team of **5 developers** in successfully delivering the entire project, encompassing features like movie exploration, personal lists, watch parties, friendship features, and the innovative meme contest.
  – Implemented movie-themed **meme contest** feature with voting, boosting user engagement.
  – Developed **user-friendly privacy** controls with customizable settings for personal lists, ensuring both enhanced user experience and robust data security.

- **Library Automation System** | ⌂ *November 2022*
  IoT library system: RFID lockers , cloud-stored data, web display, Ultrasonic & Sound Sensors.

  – **Tools & technologies used:** JavaScript, Ajax, Arduino Uno, Node Mcu,Firebase, HTML, CSS
  – Engineered a **cloud-based** library management system leveraging **Firebase for seamless data storage**.
  – Integrated **Sound Sensors** for enhanced functionality, enabling **real-time monitoring** of environmental noise.
  – Designed and implemented a dynamic **website to display live data**, providing a user-friendly interface for efficient library management.

- **Codewar** | ⌂ *December 2023*
  *A web platform enabling users to participate in **coding contests** , practice problems, and track their progress.*

- **Tools & Technologies Used:** JavaScript, PHP, Mysql, Bootstrap, HTML, CSS
- Developed a responsive and intuitive user interface for **seamless contest participation** and problem-solving.
- Implemented server-side logic using PHP for user authentication,contest submissions, and **problem solve tracking.**
- Integrated a comprehensive **problem repository** for users to read, practice, and monitor their solved problems.
- Designed and implemented a **user profile** system showcasing a detailed list of problems solved.

• **Course Management System | ⍽**   *April 2022*
  A website for students to select courses, personalized recommendations, and friend-based course matching.

- **Tools & technologies used:** PHP,Mysql, JavaScript, HTML, CSS
- Implemented a **schedule algorithm** optimizing academic planning for students.
- Developed a collaborative feature for **matching courses with friends**, fostering shared learning experiences.

• **Canteen Management System | ⍽**   *March 2021*
  This System enables users to browse, select, and purchase food items from three different canteens

- **Tools & technologies used:** Java,JavaFX
- Developed functionality to allow users to browse, select, and **purchase food items** from three distinct canteens within the system.
- Created a **dynamic menu display** showcasing food items and their corresponding prices, providing users with a clear overview of available options.

ACHIEVEMENTS

• **UIU intra University AI Contest Fall 2022 | Certificate**
  1st place *out of* **100+** *participants.*

- Applied **SVM** to a train.csv file with Medical Paper Abstracts for **multiclass classification** of medical condition labels, incorporating **text preprocessing** to optimize predictive accuracy.

• **Microprocessors and Micro-controllers Lab Category of CSE project Show,Fall 2022 | Certificate**
  2nd Runner-up *out of* **160+** *participants.*

- Created an IoT library system with **RFID lockers** , cloud storage, web display, and added features using Ultrasonic and Sound Sensors.

• **System Analysis and Design Lab Category of CSE project Show,Fall 2022 | Certificate**
  3nd Runner-up *out of* **200+** *participants.*

- Created a **movie enthusiast web app** with exploration, lists, watch parties, and a lively community.

• **Received 2500 USD research grant from Institute of Advanced Research,Oct 2023 | IAR**
  Toward Lightweight Diabetic Retinopathy Classification:A Knowledge Distillation Approach for Resource-Constrained Settings

- A knowledge distillation-based fusion model with a lightweight 102MB student model. Achieved exceptional accuracy with **100% in binary** and 99.04% in multi-class classification on the APTOS dataset, and 98.05% for binary, and 94.17% for multi-class accuracy on the IDRiD dataset. This approach holds promise for practical DR assessment in resource-constrained environments.

RESEARCH

Journals

• Toward Lightweight Diabetic Retinopathy Classification: A Knowledge Distillation Approach for Resource-Constrained Settings | 🔗 paper | **MDPI** · Nov 16, 2023

Conferences

• EWasteNet: A Two-Stream Data Efficient Image Transformer Approach for E-Waste Classification| **IEEE** 8th International Conference on Software Engineering and Computer System | 🔗 paper | Sep 26, 2023

• Data Segmentation with Improved K-Means Clustering Algorithm|First Author| On review | 26th International Conference on Computer and Information Technology **(ICCIT)**

REFERENCES

Dr. Md. Motaharul Islam, Ph.D.	**Prof. Dr. Dewan Md. Farid,ph.D.**
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