



## 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**
  - Merit-based scholarship: **50% - 3 times, 25% - 5 times**.
  - Thesis topic: Chittagonian dialect to Standard Bangla translation.
  - Relevant Coursework: • Data Structures and Algorithms • Artificial Intelligence • Web Programming • Basic Graph Theory • Machine Learning • Bioinformatics • Psychology • Accounting.

## EXPERIENCE

- **Hostrare Ltd** April 2024-Present  
*Full-stack Laravel Developer* Dhaka
  - Oitizzerhat** | [🔗 Live link](#)  
Ensure dynamic currency symbol change in settings for product pages, create a dedicated Hot Deal Products page linked to the homepage, and verify discounts and price calculations across all product pages for accuracy.
  - Chefevan** | [🔗 Live link](#)
    - Implemented full frontend design for chef's website and developed dynamic backend functionality for all pages.

## PROGRAMMING CONTESTS

### Achievements

- UIU Coders' Combat 3.0: Secured **4th** place out of **200 participants** | **Ranklist**
- **Finalist** of National Collegiate Programming Contest, JU 2024 | **Ranklist**
- National Collegiate Programming Contest PRELIMINARY JU 2024: **92th** place out of **1099 teams** | **Ranklist**
- 2024 UAP Inter-University Collaborative Programming Contest: **7th** place out of **42 teams** | **Certificate** | **Ranklist**
- 2024 SUST Inter University Programming Contest: **52th** place out of **120 teams** | | **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 928 (Div. 4): Secured **2045th** place out of **43781 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, 1242** | Solved **1105+ problems** | Participated in **195+ contests**
- AtCoder : **emam\_hasan** | Max Rating: **278-Kyu** | Solved **173+ problems** | Participated in **36+ contests**
- Leetcode : **F\_O\_Y\_E\_Z** | Solved **60+ problems**

## 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

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- **Cinephiles** |  [Github link](#) 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** |  [Github link](#)  [Video demo](#) 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** |  [Github link](#)  [Live project](#) 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** |  [Github link](#) 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.
- **Banking App** |  [Github link](#) March 2021  
*A Java-based Bank Account Management System.*
  - **Tools & technologies used:** Java
  - Built a Java-based Bank Account Management System with **diverse account types**, withdrawal constraints, and a user-friendly console interface.
  - Streamlined financial processes, providing users with a **centralized and efficient** account management solution.

## ACHIEVEMENTS

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- **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**  
**3rd 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.