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🌐 https://foyez-hub.github.io/F_O_Y_E_Z

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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 translation.
- 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**
- UAP Inter-University Collaborative Programming Contest(2024): **7th** place out of **42 teams** | **Certificate** | **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**
- 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

• 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.

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.

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.

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

• **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.

RESEARCH

Journals

- Toward Lightweight Diabetic Retinopathy Classification: A Knowledge Distillation Approach for Resource-Constrained Settings |  Paper link | **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 link | Sep 26, 2023
- Data Segmentation with Improved K-Means Clustering Algorithm| **First Author** | On review | 26th International Conference on Computer and Information Technology (**ICCIT**)