Mohammad Ariful Islam

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Work Experience

Student tutor **Oct 2022 - Dec 2023**

BRAC University, Dhaka, Bangladesh

- Tutored over 186 CSE undergraduates across 4 department sections on data structures, including arrays, trees, stacks, and queues at an Undergraduate level of study

- Delivered 975+ hours of instruction on OOP, problem-solving in data structures, Python programming, code optimization, and refactoring

- Fostered stakeholder relations with students and faculty members within the CSE department, and collaborated with tutors from other departments to conduct multiple tutoring workshops

Projects

FPS Coach **Sep 2022 - Dec 2022**

BRAC University, Dhaka, Bangladesh

- Collaborated with a team of three to develop a web application, to provide FPS gaming coaches and players with a platform, to mentor and receive coaching to enhance gameplay

- Developed the backend infrastructure leveraging the Django framework, implementing and executing over 875 lines of code to assure a robust and scalable backend infrastructure

- Implemented over 7 hours of product testing to assure stability and reusability of codebase

Online Estate Purchase App **Feb 2022 - Apr 2022**

BRAC University, Dhaka, Bangladesh

- Led a five-member team to create an application serving as a marketplace for buying and selling property utilizing PHP for server-side scripting, form handling, and database interactions

- Implemented a robust MySQL database to efficiently store and retrieve property information and designed database schemas to support complex queries and assure data integrity

Movie Catalog App **Jan 2024 - Feb 2024**

- Engineered and implemented a responsive and interactive user interface utilizing TypeScript and the Angular framework for optimal user experience and engagement.

- Integrated an external API to fetch and display up-to-date information on movies and tv shows, including details, ratings, and release dates.

- Applied TypeScript to enhance the frontend's ability to handle asynchronous data retrieval and Optimized codebase and employed best practices to ensure high performance and scalability of web application

- Utilized Azure DevOps for version control, task tracking, and collaborative development.

Others:

- Built a small decentralized application using solidity, remix IDE and a simulated etherium network where users could upload missing person data, filter the list of missing people by divisions, and admin could only toggle missing to found.

- Created a password generator with password strength measure feature to enhance security using python

Education

BSc in Computer Science | BRAC University | CGPA: 3.82   **Jan 2020 - Dec 2023**

Notable courses: System Analysis and Design & Software Engineering, Artificial Intelligence, Cloud Computing, Business - Basics, Ethics and Environment, Blockchain and Cryptocurrency

- Merit-based Scholarship

- Graduated with Highest Distinction Honor

- Thesis: Covert Data Transmission using Secret-sharing and Network Steganography

O level in 2017 | A level in 2019 | Maple Leaf International School

- Daily Star Award and Edexcel Award 2017 for O levels

- Daily Star Award 2019 for A levels

Skills

- **Programming languages:** Python, Java, Solidity, HTML, CSS, Javascript, Typescript, PHP

- **Frameworks:** NodeJS, Angular, Express, Django

- **Database:** MySQL, MongoDB, Firebase

- **Tools and Technologies:** Git, Linux, VMs, Docker, Azure DevOps

- Familiar with cloud computing and blockchain concepts

- **Soft skills:** Teamwork and collaboration, time management, adaptability, attention to detail and problem-solving

Social Media

Github — https://github.com/ArifulHoHo

LinkedIn — https://www.linkedin.com/in/ariful005

Secondary email — sicorpthermopolis@gmail.com

Portfolio — https://arifulhoho.github.io/portfolio