Istiak Bin Mahmod

CONTACT INFORMATION

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EDUCATION

Bangladesh University of Engineering and Technology GPA : 3.63/4.00
B.Sc in Computer Science and Engineering April 2018 - May 2023

- Thesis Supervisor: Dr. Muhammad Masroor Ali
- Coursework: *Discrete Mathematics*, *Data Structures and Algorithms*, *Digital Logic Design*, *Theory of Computation*, *Database*, *Computer Architecture*, *Compiler*, *Microprocessors, Microcontrollers, and Embedded Systems* , *Operating System*, *Artificial Intelligence*, *Computer Networks*, *Computer Security*, *Computer Graphics*, *Basic Graph Theory*, *Machine Learning* etc.

PROFESSIONAL EXPERIENCE

Optimizely, Dhaka, Bangladesh
Software Engineer I October 2023 - Present

- Working as full-stack developer in the Web Delivery - Experimentation team
- *Tools & Technologies*: Flask(Python), React.js, Vue.js, Google Cloud Platform

Computer Network Systems Limited, Dhaka, Bangladesh
Assistant Software Engineer June 2023 - August 2023

- Worked as a full-stack developer
- Worked primarily with Java Spring Boot, React JS, Oracle DBMS

HONORS AND AWARDS

Dean's List Award 2018, 2019

General Merit Scholarship, Higher Secondary School Certificate Examination 2017

Talentpool Merit Scholarship, Secondary School Certificate Examination 2015

3rd position, Bangladesh Chemistry Olympiad Division, Divisional round (Chittagong, Bangladesh) 2015

RESEARCH EXPERIENCE

Undergraduate Thesis [PDF]
Supervisor: Dr. Muhammad Masroor Ali, Collaborator: Soham Khisa June 2022 - May 2023
Our thesis proposed a newspaper categorization system that utilizes ontology to extract metadata from unstructured HTML news articles. We used the IPTC Media Topics taxonomy, which categorizes text using over 1200 terms, to categorize the articles based on ontology concepts.

ACADEMIC PROJECTS

Moodle LMS [Code] [Demonstration]
We developed a Moodle LMS (Learning Management System) for our software engineering project. We utilized the MERN stack (MongoDB, Express, React, Node) to develop a web-based LMS platform. This website was inspired by `moodle.cse.buet.ac.bd`.

Blood Donating Platform [Code]
We designed and developed a blood donation app as an undergraduate project. The website allows users to sign up as donors, specify their blood type, and provide their contact information. When a blood drive or a hospital requests blood, the app sends notifications to eligible donors in the area, allowing them to quickly and easily respond to the call for donation.

Retro Shooting Game [Code] [Demonstration]
We built a retro shooting game using C++ and the ATMEGA32 microcontroller. This game features 2D graphics, simple and fast-paced action, and a focus on high scores and player skill. The goal is usually to achieve the highest score possible, either by surviving for as long as possible or by collecting points for defeating enemies.

TECHNICAL SKILLS

- Languages: Python, Java, C, C++, HTML5, CSS, Bash
- Frameworks: Flask, React.js, Node.js, Django, Spring Boot
- Databases: GCP Datastore, Oracle PL/SQL, MySQL, MongoDB
- Miscellaneous: Git, Github, LaTeX, NS3, PacketTracer, Wireshark