Sahid Hossain Mustakim

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RESEARCH INTERESTS

Multimodal, Networking, Expandable AI

EDUCATION

United International University   2020 — 2024
Bachelor of Science in Computer Science and Engineering   CGPA: 3.91/4.00
Thesis Title: AVLoS: Audio-Visual Long Text Scene Summarization

Dhaka City College   2017 — 2019
Higher Secondary Certificate   GPA 4.42

Udayan Uchcha Madhyamik Bidyalaya   2007 — 2017
Secondary School Certificate   GPA 5.00

EXPERIENCE

United International University
Contractual Lecturer   June 2024 - Present

- **Courses:** Introduction of Computer System, Discrete Mathematics

United International University
Undergraduate Assistant   Oct 2022 — May 2024

- **Courses:** Structured Programming Language Laboratory, Data Structure and Algorithms I Laboratory, Digital Logic Design Laboratory, Microprocessors and Microcontrollers Laboratory, Electronics Laboratory.
- Bridged the gap between students and faculty by relaying feedback and addressing concerns.
- Made assignments, quizzes, exams and taught some classes.

United International University
Grader   Mar 2023 — Dec 2023

- **Courses:** Electronics, Probability and Statistics, Data Structure and Algorithms II, Theory of Computation.
- Checked class tests script, evaluating assignments.

AWARDS

Academic Excellence Scholarship   Dhaka, Bangladesh
Academic scholarship award for 12 consecutive trimesters from United International University   2020 — 2024

Gold Award (Champion), International Blockchain Olympiad (IBCOL) 2023   Amsterdam, The Netherlands
Awarded the Gold Award (€2400) in IBCOL 2023 for solving problems through blockchain technology.   November 2023

Champion, Bhashamul: Bengali Regional Text to IPA National NLP Datathon   Dhaka, Bangladesh
Awarded the champion for implementing the highest-scoring Bengali regional text-to-IPA method.   March 2024

Champion, Hult Prize OnCampus Round   Dhaka, Bangladesh
Awarded the champion of the Hult Prize UIU OnCampus Round for presenting NurtureAid.   March 2024

Silver Award(1st Runner Up), Bangladesh Blockchain Olympiad (BCOLBD) 2023   Dhaka, Bangladesh
Awarded the silver award (second place) in BCOLBD 2023 for solving problems through blockchain technology.   July 2023

Champion, Software Engineering Lab   Dhaka, Bangladesh
Awarded the champion of the Software Engineering Lab for the project: NurtureAid   September 2023

2nd Runner, Database Management Systems Lab   Dhaka, Bangladesh
Awarded the champion of the Database Management Systems Lab for the project: Sujog   September 2022

Champion, Advanced Object Oriented Programming Lab Dhaka, Bangladesh
Awarded the champion of the Advanced Object Oriented Programming Lab for the project: ECMS Desktop January 2022

PUBLICATIONS

Journal paper
Under Review

- Islam, S M Jishanul and **Mustakim, Sahid Hossain** and Hossain, Musfirat and Mashira, Mysun and Shourav, Nur Islam and Ahmed, MD. Rayhan and Islam, Salekul and Shatabda, Swakkhar and Islam, A.K.M. Muzahidul. 2024. An audio video-based multi-modal fusion approach for speech emotion recognition. Knowledge-Based Systems (Elsevier) [Impact Factor 8.8].

Conference paper

Under Review

- Islam, S M Jishanul and Ahmmed, Sadia and **Mustakim, Sahid Hossain** and Islam, Mohammad Jawwadul and Shatabda, Swakkhar and Hassan, Md. Rezuwan and Sadique, Farig. 2024. BhaShammo: IPA Transcription of Bengali Regional Dialect using District Guided Tokens. International Conference on Pattern Recognition (ICPR) 2024.

Under Preparation

- Ahmmed, Sadia and **Mustakim, Sahid Hossain** and Islam, S M Jishanul and Ferdous, Samira Raisa and Rahman, Taimur and Osmani, Anas Mohammad Ishfaqul Muktadir and Jobair, Abdullah Al. 2024. Impact of Flow State on the Productivity of Data-Driven Projects.

PROJECTS

NurtureAid September 2023 — Ongoing
GitHub Repository (github.com/sadia-ahmmed/AgeWell-Frontend)

- A real-time cross-platform mobile application that simplifies care through caretakers.
- Uses a user-adaptive dashboard for a personalized experience.
- Uses real-time monitoring to track appointments, activities, and dangers.
- Has a centralized cloud report storage that is easily shareable through links.
- Has family circles that link together multiple accounts and provide real-time communication between them.
- AI-IoT-based systems to provide an interactive and seamless experience for users.
- **Tech Stack:** React Native, Node.js, Flask, MongoDB, Firebase, LLaMA-Index, PyTorch.
- **Acknowledgements:** Champion of the Software Engineering Lab project show by the department of CSE-UIU; Champion of the Hult Prize OnCampus round in UIU; Selected for the Hult Prize Summit in Boston.

IPBlockchainPro March 2023 — Ongoing
GitHub Repository (github.com/S-M-J-I/ipblockchainpro)

- A web3 dApp that helps users, hobbyists, researchers, SMEs, and corporations protect, license, and commercialize Intellectual Property (IP).
- A sophisticated hybrid blockchain to protect the ownership of IPs as NFTs.
- Includes an open decentralized marketplace.
- AI systems to aid user experience.
- **Tech Stack:** React.js, Node.js, Flask, MongoDB, Firebase, Langchain, Solidity, Hyperledger Besu.
- **Acknowledgements:** Silver Award (2nd place) at the Bangladesh Blockchain Olympiad 2023; Gold Award (Champion) at the International Blockchain Olympiad 2023.

Sujog July 2022 — September 2022
GitHub Repository (github.com/sahidmustakim/Sujog)

- A web application to connect with young people worldwide, providing them with a platform to discover and seize diverse opportunities.
- The platform provides free opportunities and educational materials for skill and knowledge development.
- The goal is to help users turn opportunities into successes. Sujog connects users with opportunity providers for mutual benefit.
- Sujog promotes equal access to opportunities regardless of location. Where someone lives should not limit their personal or professional growth.
- **Tech Stack:** HTML, CSS, JS, Bootstrap, PHP

- **Acknowledgements:** 2nd of the UIU CSE Project Show, Database Management Systems Laboratory.

ECMS Desktop   September 2021 — January 2022
`GitHub Repository (github.com/UIU-Developers-Hub/ECMS-Desktop)`

- A desktop app designed to create a comprehensive system for managing the co-curricular activities of students, clubs and forums, and admins of United International University.
- Includes real-time communication with databases and a communication server that can serve text and image messages.
- **Tech Stack:** JAVA, JAVAFX, MYSQL, APACHE POI
- **Acknowledgements:** Champion of the UIU CSE Project Show, Advanced Object Oriented Programming Laboratory.

SKILLS

- **Programming:** C, C++, Java, Python, JavaScript, PHP, SQL
- **Machine Learning:** PyTorch, Matplotlib, Numpy,
- **Frameworks/Libraries:** React.js, Firebase
- **Soft Skills:** Communication, Leadership, Design Thinking, Public Speaking

REFERENCES

Dr. Swakkhar Shatabda
Professor of Computer Science and Engineering & Director, Data Science Program
United International University, Dhaka, Bangladesh
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Profiles: United International University - Personal Page — Google Scholar

Dr. Suman Ahmmed
Associate Professor of Computer Science and Engineering & Director, Center For Development of IT Professionals (CDIP)
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E-mail: suman@cse.uiu.ac.bd
Profiles: United International University - Personal Page — Google Scholar