Layla Kader Suma

Dhaka,Bangladesh | laylakadersuma1@gmail.com | +8801632594461 | linkedin.com/in/laylakadersuma

Education

United International University , B.Sc in Computer Science and Engineering   January 2020 – August 2024
- GPA: 3.8/4.0
- **Major:** Software Engineering
- **Thesis:** UniVerseHub: A Confluence of AI-Powered Intellect and Collaborative Learning Architectures

Research Interests

- Human-Computer Interaction (HCI) in educational technologies and collaborative learning environments.
- Machine Learning applications in cloud computing, scheduling optimization, and educational analytics.
- Blockchain and decentralized systems for secure data management and computer security.

Experience

Undergraduate Teaching Assistant (UTA), Department of Data Science and   2023 – 2024
Department of Computer Science and Engineering, United International University
- Supported academic delivery for 4 courses across multiple trimesters under 3 faculty mentors.
- Assisted in teaching:
    - **Introduction to Computer Systems**
    - **Structured Programming Language**
    - **Data Structures and Algorithms I**
- Graded assignments, quizzes, and exams; maintained academic records.
- Provided student mentoring, academic advising, and problem-solving sessions.
- Contributed to developing lab manuals and course materials.

Publications

GLOPS: A Hybrid Approach for Enhanced Scheduling in Cloud Computing Environments via Machine Learning-Based Process Prediction   Under Review

Syed Abu Ammar Muhammad Zarif, **Layla Kader Suma**, Md. Sadat Rahman, Md. Motaharul Islam (Member, IEEE), Phuoc Hung Pham, Phong Dung Thi Nguyen, Nguyen Thanh Binh

Under review in IEEE Access (Q1 Journal).

TrustAid: A Decentralized Blockchain Solution for NGO Donation Tracking and Verification   Ongoing

Layla Kader Suma, Syed Abu Ammar Muhammad Zarif, Md. Sadat Rahman, Mr. Mir Moynuddin Ahmed Shibly

A blockchain and computer security-focused research project involving interviews with NGO personnel, donors, and beneficiaries. Developed using Solidity, Web3, Remix, and blockchain technology. Expected submission to a Q1 journal.

The Impact of Large Language Models on STEM Students in South Asian Countries: A Mixed-Methods Study   Ongoing

Layla Kader Suma, Mysun Mashira, Subangkar Karmaker Shanto

An ongoing study investigating the influence of large language models (LLMs) such as ChatGPT, Claude, and others on the learning abilities of STEM students in South Asian countries. The research employs a mixed-methods approach, incorporating case studies, participant observations, interviews, and surveys.

Honors and Awards

Silver Winner — TrustAid (Blockchain Olympiad, National Round)   Feb 2025
United International University CSE Fest 2025.
Developed **TrustAid**, a blockchain-based NGO donation system. Enabled real-time, transparent donation tracking.

1st Runner-Up — UniVerseHub (Final Year Project Showcase)   Jul 2024
United International University, Department of CSE.
Created **UniVerseHub**, an AI-powered academic support app. Offered study materials, video sessions, and smart FAQ.

1st Runner-Up — UniVerseHub (Software Engineering Project Showcase)   Feb 2024
United International University, Department of CSE.
Developed **UniVerseHub** with centralized course resources. Featured AI tutors, peer video study, and smart chat.

1st Runner-Up — UIUSAT System (System Analysis & Design Project Showcase)   Jul 2022
United International University, Department of CSE.
Built a student achievement tracking system. Simplified CV building and alumni records.

1st Runner-Up — Super Universe (Database Management System Showcase)   Apr 2022
United International University, Department of CSE.
Created a superhero card collection platform. Enabled search, unlock, and social features.

Merit-Based Scholarship (12 Trimesters)   2020–2024
United International University, Department of CSE.
Awarded scholarships for 12 consecutive trimesters. Tuition waivers ranged from 50% to 100%.

Extracurricular Activities

Student Volunteer — United International University   Sep 2023
Volunteered at UIU CSE Fest 2023 in Science & Technology events.

Champion — Art Competition (BD Japanese Festival 2022 & TASH Entertainment)   Aug 2022
Won an anime-style watercolor art contest featuring Sakura and Lolita fashion.

General Member — UIU Robotics Club   2022–2024
Participated in club activities, workshops, and project sessions.

Event Committee Member — Students' International Affairs Society   2022–2024
Managed international events, logistics, graphic design, and guest coordination.

Skills

Coding Skills: C, C++, Java, Python, JavaScript, Solidity, SQL, HTML, CSS

Technologies & Tools: .NET, MongoDB, Web3, Remix IDE, Git, LaTeX, Visual Studio Code, React.js

Soft Skills: Team Collaboration, Leadership, Public Speaking, Academic Counseling, Project Management, Problem Solving, Event Coordination

Language Skills: Bangla (Native), English (Fluent)

References

Dr. Md. Motaharul Islam
Professor, Department of CSE & Director, MSCSE Program
United International University
Email: motaharul@cse.uiu.ac.bd

Mr. Shoib Ahmed Shourav
Lecturer, Department of CSE
United International University
Email: shoib@cse.uiu.ac.bd