KAZI SHIBLI ZAMAN RAHIL

CSE Graduate | Software Development | Research-Oriented |
AI & Machine Learning | Cybersecurity | Data Analytics

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PROFESSIONAL SUMMARY

To contribute to a forward-thinking organization by leveraging my skills and knowledge in Computer Science and Engineering to deliver innovative, efficient, and impactful solutions. I aim to continuously enhance my technical expertise, embrace emerging technologies, and grow into a leadership role where I can drive excellence through informed decision-making and effective collaboration.

EDUCATION

Bachelor of Science in Computer Science & Engineering
United International University | 2022–2026 | CGPA: 3.72 out of 4.00

Higher Secondary Certificate (HSC) — Science
Dania University College, Dania, Dhaka | 2020 | GPA: 5.00 out of 5.00

Secondary School Certificate (SSC) — Science
Bright School and College, Dania, Dhaka | 2018 | GPA: 5.00 out of 5.00

TECHNICAL SKILLS

Programming Languages	C, C++, Java, Python
Frontend Development	HTML5, CSS3, JavaScript, React.js, Bootstrap
Backend Development	PHP, Laravel; Python-based application development
Desktop Application Development	JavaFX
Database Management	MySQL, MariaDB
Platforms & Collaboration Tools	Google Colab, GitHub, Kaggle, Jira, Trello
Office & Productivity	Microsoft Word, Excel, PowerPoint; Google Docs, Google Forms
Research & Technical Domains	Cybersecurity, Network Security, Zero-Trust Architecture, Malware Detection, AI, ML, Deep Learning, Data Science, Data Analytics, Data Mining, Clustering, Blockchain Technology
Development Environments & Networking Tools	Visual Studio Code, Code::Blocks, Eclipse IDE, IntelliJ IDEA, NetBeans, Git Bash, XAMPP, Cisco Packet Tracer

RESEARCH PROJECTS

- **AI-DRIVEN ZERO-TRUST SECURITY FRAMEWORK FOR NEXT-GENERATION SMART CITIES**

Final Year Design Project (FYDP) | 2025-26 **(Submitted to ECCE Conference 2027)**

- **ZERO-REFERENCE LOW-LIGHT IMAGE ENHANCEMENT USING ADAPTIVE CONTRAST AND EDGE PRESERVATION**

Digital Image Processing | 2026

- **ENTROPY-GUIDED INITIALIZATION FOR K-MEDOIDS CLUSTERING: IMPROVING CLUSTER STABILITY AND CONVERGENCE ON REAL-WORLD DATASETS**

Data Mining | 2026

- **AN INTELLIGENT MALWARE DETECTION SYSTEM IN MODERN CYBERSECURITY USING HYBRID-ENSEMBLE MACHINE LEARNING MODEL**

Machine Learning | 2025

- **SECURITY VULNERABILITY OF THE DIFFIE–HELLMAN KEY EXCHANGE UNDER MITM ATTACKS**

Computer Security | 2025

- **BLOCKCHAIN FOR E-WASTE TRACKING AND RECYCLING MANAGEMENT**

Green Computing | 2025

SOFTWARE & HARDWARE PROJECTS

- **H.E.X - Health, Education & eXploration Desktop Application (Software)**

A Java desktop application that brings together hospital bed and ICU lookup, medical test prices, blood bank and pharmacy information, library resources, verified tutors, and parking services, with department-based administration and user–admin chat.
Stack: Java 21, JavaFX 21, MySQL, JDBC, Maven, TCP Sockets, FXML, CSS

- **GlobalEdX - Study-Abroad Guidance Platform (Software)**

A web platform for Bangladeshi students to explore and compare universities across 3 countries and 9 institutions, review programs, tuition and admission requirements, receive profile-based recommendations, and submit document-supported offer-letter requests.
Stack: PHP, MySQL, HTML5, CSS3, JavaScript, Bootstrap 5.3.3, Font Awesome

- **EdAcademix - Study-Abroad Guidance & IELTS Preparation Platform (Software)**

An expanded successor to GlobalEdX, extending coverage to 5 countries and 20 universities, with scholarships, program-level tuition and eligibility details, a complete IELTS practice hub, AI-assisted writing feedback, live examiner-led speaking sessions, performance tracking, certificates, and an administration panel.
Stack: PHP, MySQL, HTML5, CSS3, JavaScript, Bootstrap 5, Chart.js, OpenRouter/DeepSeek API, Jitsi Meet, FPDF

- **UIU ResearchCollab - Academic Research Collaboration Portal (Software)**

A role-based student–faculty–admin portal supporting researcher matching, faculty research opportunities, applications, mentorship, team workspaces, communities, a research repository, and secure collaboration tools.
Stack: Core PHP 8, PDO, MySQL/MariaDB, Bootstrap 5.3.3, HTML5, CSS3, JavaScript

- **Automated Saltwater Aquarium System (Hardware)**

An Arduino-based automated aquarium management system for monitoring water temperature, pH, TDS, and water levels, with automatic fish feeding, scheduled lighting, and real-time LCD monitoring.
Stack: Arduino Mega, C/C++, DS18B20, pH-4502C, TDS Sensor, Ultrasonic Sensor, Servo Motor, LCD, LEDs, Water Pump

- **AgriSense - AI-Powered Smart Agriculture Drone & Soil Health Station (Hardware)**

An integrated smart agriculture system combining an AI-powered crop-monitoring drone and an IoT-based ground station for crop health detection, soil monitoring, and automated multi-zone irrigation.
Stack: Arduino UNO, ESP32, Raspberry Pi, CNN, MobileNetV2, Machine Learning, Computer Vision, IoT, UAV/Drone Components

RESEARCH INTERESTS

Cybersecurity | Artificial Intelligence | Machine Learning | Deep Learning | Data Science | Data Analytics | Network Security | Computer Vision | Image Processing.

PROFESSIONAL STRENGTHS & LANGUAGES

- Self-confident, patient, and positive attitude.
- Analytical thinking, problem-solving, and informed decision-making.
- Adaptability, accountability, and a strong willingness to learn.
- Communication, mentoring, teamwork, and collaborative working.
- Leadership, coordination, and a sincere, responsible work ethic.
- Languages: Bengali (Native) | English (Fluent).

EXTRACURRICULAR ACTIVITIES

Member, UIU Model United Nations (UIU_MUN) Club; UIU Robotics Club; and UIU Computer Club. Previous involvement in public-speaking activities, school events, scouting, and community volunteering.

EXPERIENCE

Private Tutor
More than 5 years of tutoring experience
Provided independent academic tutoring, helping students strengthen subject understanding and academic foundations. Developed communication, mentoring, lesson-planning, and time-management skills.

AWARDS & ACHIEVEMENTS

- **Champions Trophy - CSE Project Show 262 | FYDP 3 | Team Leader, Catalyst 505**

Recognised for FYDP 3 Poster Presentation and Full Research Demonstration.

- **Champions - CSE Poster Show 223 | LSS | Team Leader & Class Representative**

Recognised for Life Skills for Success Poster Presentation.

REFERENCES

Dr. Muhammad Nomani Kabir, **Professor**
Department of **Computer Science and Engineering**
United International University **(UIU)**, Dhaka, Bangladesh
Email: kabir@cse.uiu.ac.bd
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Dr. Ohidujjaman, **Associate Professor**
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