Ishtiaq Ahmed

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Research Interest: Digital Forensics, Machine Learning

WORK EXPERIENCE

- **Digital Forensic Investigator (Intern)**   **Jan 2024 - current**
  Team Matrix - Elite Hackers, Dhaka

- **Graphics Designer**   **Mar 2020 - 2022**
  Service Key IT Agency, Dhaka

- **Graphics Designer**   **Jun 2020 - 2021**
  Sell in BD (E-commerce), Dhaka

- **Head of IT Operation**   **Aug 2021 - 2024**
  Doinik Prothom Pata, Rajshahi

- **Senior Executive**   **Feb 2021 - 2024**
  BRAC University Computer Club, Dhaka

- **Executive Operation**   **Jan 2023 - 2024**
  BRACU Duburi, Dhaka

EDUCATION

- **BRAC University**   **April 2021 - current**
  B.Sc. in Computer Science and Engineering (CSE)
  CGPA: 3.31/4.00
  Notable Courses: Computer Networking, High Performance Database Systems, Operating Systems, Computer Security, Artificial Intelligence, Compiler Design, Software Developement, Microprocessors and Microcontrollers

- **Koyel Adarsha Degree College 1996 -**   **2020**
  H.S.C.
  GPA: 5.00/5.00

- **City Ideal School and College, Rajshahi 2003 -**   **2018**
  S.S.C.
  GPA: 5.00/5.00

RESEARCH EXPERIENCES

- **Electro Magnetic Side Forensics to Detect AI Genareted Video**   **Jun 2025 - current**

  – Undergraduate thesis project under the guidance of Mr. Arif Shakil sir. We proposed that distinct electromagnetic emission patterns can be observed and analyzed to differentiate between camera-captured and AI-generated videos. By leveraging side-channel forensic techniques, it is possible to identify unique EM signatures associated with real and synthetic visual content, offering a novel approach to authenticity verification in digital media.

PROJECTS

- **Rajshahi City Android App**
  Flutter Flow, Android Studio

  - The Rajshahi City App is a free Android application that centralizes essential services for Rajshahi residents. It offers features like online marketplace, doctor appointments, real estate services, transport schedules, and tourist information. The app also includes emergency support (blood donation, police, fire), job updates, vehicle rentals, and contacts for tutors, mechanics, and restaurants.

- **Danger-3 SMS Bomber Tool**
  Python, GUI, Inno

  - Danger3 is a desktop automation tool designed to simulate multiple OTP request attempts to various world wide service providers. This tool is used to perform automated login or registration requests using the inputted phone number. It was built strictly for cybersecurity research, stress testing, and educational awareness not for malicious use.

- **SpoofHat Email Spoofing Tool**
  Python, GUI, Inno

  - Spoof Hat is a desktop application designed to send spoofed emails for educational and security testing purposes. This software uses a fixed SMTP configuration and allows users to customize the name, subject, and message of the spoofed email. It was built strictly for cybersecurity research, stress testing, and educational awareness not for malicious use.

- **Reporter Dashboard Wordpress Plugin**
  HTML, CSS, JavaScript, PHP

  - A WordPress plugin that gives each reporter a unique submission link with a newspaper-style form. Reporters can submit posts directly without accessing the dashboard — including title, content, category, and featured image — which are automatically published under their own author profile.

- **Tiny Inode-Based Filesystem (MiniVSFS)**
  Ubuntu, Kali Linux, C

  - MiniVSFS is a lightweight inode-based file system project written in C. It includes a builder tool to create new file system images and an adder tool to insert files into the root directory. Key features include superblock checksum, inode and data bitmaps, and support for 12 direct block pointers, making it a simple yet effective implementation for learning and experimenting with file system concepts.

- **Nil-Chithi (Digital 90's loveletter)**
  HTML, CSS, JavaScript

  - Nil-Chithi is not merely a program, but a journey of love told through design. It begins with the quiet turning of a calendar, as though time itself pauses to honor the day. From there, a delicate envelope drifts into view, guarding words that wait to be discovered. Once opened, it unfolds into a heartfelt letter—each line carrying warmth, memory, and devotion. And as the final words settle, a shower of vibrant confetti bursts forth, like emotions overflowing beyond the page. This is not just a gift of code, but a tender celebration—an intimate, poetic experience created to surprise your beloved on their birthday.

- **Graphics Design Project**
  Adobe Photoshop, Illustrator

  - I've been passionate about graphic design and motion graphics since before starting university and began exploring creative work through Photoshop and other design tools early on. After getting into university,I had the opportunity to work with several companies and creative agencies,gaining hands-on experience in both professional and freelance projects.I'm still actively creating and experimenting with new ideas constantly learning and improving my design skills.

- **Video Editing Project**
  Adobe Premiere Pro, CapcutPro

  - Experienced video editor with a strong background in motion graphics. I've worked with numerous companies and agencies, producing professional, visually compelling content for diverse project.

TECHNICAL SKILLS

- **Languages**: C/C++, Python (Sklearn, Pandas, Matplotlib), Java, Javascript, x86 Assembly, Bash

- **Frameworks**: Flutterflow, Oracle DBMS, LaTeX

- **OS**: Windows, Linux, Ubuntu

- **Dev Tools**: Visual Studio Code, Git

HONORS AND ACHIEVEMENTS

- **Board Exam Certificate:** SSC, HSC   **2018, 2020**

- **Others:**

  - 1st Position on Soccer Bot Competition on TechSpectra 2.0   **2024**
  - Participant at Regional Mathematical Olympiad   **2017**
  - Participant Award at CEH Exam organized by team matrix elite hackers.   **2024**