

MD. ASHRAFUL ALAM SOHAN

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PROFESSIONAL SUMMARY

Security-oriented Computer Science and Engineering candidate with a focus on AI applications in Cybersecurity. Holds the ISC2 Certified in Cybersecurity credential and developing software for production deployment, including Bengali OCR system (live) and Python cryptography tool. Currently conducting adversarial ML research at Quantum Cyber Intelligence, focusing on attack vectors targeting CNN-based classifiers and LLM deployment pipelines. Gaining structured SOC analyst exposure through TryHackMe's Level 1 track and HTB Academy, covering SIEM operations, threat intelligence, incident response, and network defense. Comfortable working independently in Linux environments and picking up new technical domains through hands-on practice.

TECHNICAL SKILLS

Security & SOC: Open Source Intelligence · Incident response · SIEM fundamentals · Digital Forensics · SOC operations · Classical cryptography · Security Governance

AI & Machine Learning: Adversarial ML · CNN image classification · OCR pipeline development · Machine learning fundamentals · Image processing

Systems & Infrastructure: Operating System (Windows, Kali Linux) · System administration · Network diagnostics · Troubleshooting · Bash scripting

Development & Tools: Python · C · HTML / CSS / JavaScript · Git / GitHub · Tkinter · CLI Based Tools · SQLite · Flask · Antigravity (Agentic IDE)

Design & Notes: Obsidian · Adobe Premiere Pro · OBS Studio · Canva · Figma

EXPERIENCE

Research Trainee – Quantum Cyber Intelligence June 2026 – Present

- Onboarding into adversarial ML research, studying attack vectors targeting CNN-based image classifiers and LLM deployment pipelines.
- Building foundational knowledge of adversarial techniques (e.g. FGSM, PGD, data poisoning) and CI/CD pipeline security under senior researcher guidance.

TECHNICAL PROJECTS

Bangla OCR — Handwritten Bengali Text Recognition System Jan 2026 – Present

- Key developer on a production-deployed OCR pipeline for handwritten Bengali — a low-resource language recognition problem requiring custom preprocessing and model integration.
- Built and validated image processing components within the end-to-end recognition pipeline; system live at theocrteam.pythonanywhere.com.

endec — Encryption / Decryption Desktop Tool 2025

- Built a Python desktop application from scratch implementing Caesar Cipher and Vigenère Cipher, with a Tkinter GUI, clipboard integration, and file I/O support.
- Architected around a modular CipherHandler class for clean separation of cipher logic; source available on GitHub.

CYBERSECURITY LEARNING EXPERIENCE

HackTheBox — HTB Certified Junior Cybersecurity Analyst (CJCA) Mar 2026 – Present

- Pursuing a lab-based certification (CJCA) covering common vulnerabilities, security monitoring, analyzing network traffic and logs, recognizing potential security gaps, detection intrusion and perform basic post-exploitation.

TryHackMe — SOC Level 1 Training Track Feb 2026 – Present

- Completing a lab-based SOC analyst program covering threat intelligence, SIEM platforms, incident response workflows, digital forensics, and network defense.

EDUCATION

B.Sc. in Computer Science and Engineering – Uttara University, Dhaka
CGPA: ~3.15 (final result not published yet) / 4.00

Jan 2022 – 2026

CERTIFICATIONS

- ISC2 CC — Certified in Cybersecurity
- EdX — CS50x: Introduction to Computer Science
- Microsoft — Student SOC Program Foundations Training
- FreeCodeCamp — Responsive Web Design
- HTB — Certified Junior Cybersecurity Analyst (CJCA) (In progress)
- Scrimba — Full-Stack Web Development (In Progress)

EXTRACURRICULAR & VOLUNTEER WORK

IT Secretary & Executive Member – Youth For Better Future Society (YBF)

Jul 2025 – Present

Volunteer Member since 2022

- Manage digital communications infrastructure and technical operations for a youth-focused nonprofit (ybfbd.com) conducting educational programs across the capital of Bangladesh.
- Coordinate IT systems supporting event logistics, outreach campaigns, and internal workflows as the primary technical point of contact.
- Contribute to executive-level decisions and strategic planning as a board-level Executive Member alongside senior leadership.

LANGUAGES

English (Proficient) · Bengali (Native)