

MOHAMMAD SAKAWAT KABIR

Penetration Tester in Training | Backend & Systems Developer | CSE Undergraduate

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SUMMARY

Computer Science undergraduate focused on penetration testing and systems security, with hands-on experience building and self-hosting real-world infrastructure on AWS. Currently advancing through TryHackMe's Junior Pentester path (MAGE tier, Top 4%) and applying security concepts to deployed systems. Strong foundation in Linux, networking, Python, C/C++, FastAPI, and backend development, supported by competitive programming experience with 500+ problems solved on Codeforces.

EDUCATION

Bachelor of Science in Computer Science & Engineering Oct 2023 – Present

Chittagong University of Engineering & Technology (CUET), Chittagong, Bangladesh

HSC in Science Oct 2020 – Dec 2022

Jalalabad Cantonment Public School and College, Sylhet, Bangladesh — GPA 5.00/5.00

SSC in Science Jan 2018 – Mar 2020

Blue Bird High School and College, Sylhet, Bangladesh — GPA 5.00/5.00

SELECTED PROJECTS

Real-Time Cyber Attack Monitoring & Threat Intelligence Platform Academic Project

- Built a self-hosted platform detecting SQL injection, XSS, brute-force, and DDoS activity via a hybrid rule-based and ML detection engine, with a lightweight log agent streaming findings to a live dashboard.

CinemaSeat — Concurrency-Safe Ticket Booking System Zero to Production Hackathon, 2026

- Built a movie-ticket booking platform around one invariant: a seat is never sold twice, using Redis atomic holds (SET NX EX) and PostgreSQL unique constraints to make double-booking structurally impossible under concurrent load.

Basilisk Shell Personal Project

- AI-powered Linux terminal assistant that converts natural-language requests into audited Bash commands, with layered safety checks, risk-gated execution, and multilingual input handling.

Full Custom DNS Spoofer with scapy Personal Project

- Educational Python toolkit for custom DNS spoofing with Scapy — MAC manipulation, network scanning, ARP spoofing, packet sniffing, and targeted DNS response interception in authorized lab environments.

Self Hosted Cloud Server

- Secure, containerized self-hosted cloud platform built with Nextcloud, MariaDB, Redis, Pi-hole, Nginx Proxy Manager, and Twingate — private file storage, sync, HTTPS access, and local DNS.

CUET Insights & CUET Jam University Community Platforms

- Built two Spring Boot 3.2 + MySQL platforms for the CUET community: complaints, innovations, resource sharing, and posts (Insights); team-finding, lost & found, and resource sharing (Jam).

ACHIEVEMENTS

- 1st Runner-Up, Zero to Production: The Ultimate Hackathon — CUET IEEE Computer Society x Poridhi.io
- Team ranked 111th, CUET IUPC 2025
- Participant, ICPC Asia Dhaka Preliminary 2024
- 7th Place, Intra-University Junior Programming Contest, CUET Computer Club.
- Pupil, Codeforces — 500+ problems solved across online judges.
- MAGE tier, Top 4%, TryHackMe — 10,900+ points.

TECHNICAL SKILLS

Languages: Python, C, C++, C#, Java

Backend & Data: FastAPI, Django, Spring Boot, PostgreSQL, MySQL, Redis, SQL

Security & Systems: Penetration testing fundamentals, Linux internals, networking, eBPF/BCC, network traffic analysis, intrusion detection concepts

Tools & Infrastructure: Docker, AWS (EC2), Git, Linux/CLI tooling, Bash

CERTIFICATIONS

- CompTIA Network+ (N10-009) — Course Completion, CBT Nuggets (Dec 2025)
- Data Engineer Associate — DataCamp