

Aliza Fatima

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Summary

A motivated and detail-oriented cybersecurity student with a solid foundation in computer science, practical experience in networking, programming, and system security. Demonstrated ability to apply theoretical knowledge through hands-on projects and certifications. Recognized for strong problem-solving skills, adaptability, and commitment to continuous learning in emerging technologies and cybersecurity practices.

Education

National University of Computer & Emerging Sciences (FAST-NUCES) –

Bachelors in Cybersecurity

CGPA: 3.42 / 4.00

Aug 2023 – Present

Govt. Degree College Malir Cantt, Karachi – Intermediate

Grade: A

Oct 2021 – Jun 2023

Qamar e Bani Hashim Higher Secondary School – Matriculation

Grade: A+

Jun 2021

Work Experience

Penetration Tester – Internship, Trillium Information Security Systems

June 2025 – July 2025

- Performed OWASP Top 10 web and mobile security labs (PortSwigger, DVWA, WebGoat) and Android app pentesting (InsecureBank, InsecureShop) using Burp Suite and MEMu.
- Gained hands-on experience in OWASP Android/iOS testing, red team methodologies, and CTF challenges.
- Strengthened practical exploitation, vulnerability detection, and reporting skills.

Projects

Web Crawler

github.com/WebCrawler

- Designed a Python-based web crawler to extract, parse, and store data efficiently using SQLite.
- Implemented concurrency, JavaScript rendering, and anti-ban mechanisms using Selenium and Scrapy.
- **Tools Used:** Python, BeautifulSoup, Requests, Selenium, SQLite, Scrapy

Key Logger

github.com/KeyLogger

- Developed a Python keylogger for secure local keystroke monitoring with controlled data access.
- Enhanced understanding of file handling, data encryption, and system-level operations.
- **Tools Used:** Python

Recipedia – AI Integrated Recipe Website

Backend: github.com/Recipedia-Backend

Frontend: github.com/Recipedia-Frontend

- Built a web app that generates regional recipes using AI integration with dynamic database support.
- Focused on responsive design, database connectivity, and real-time user interactions.
- **Tools Used:** DeepSeek AI, PostgreSQL, SCSS, HTML, CSS

Car Rental Management System

github.com/Car-Rental-System

- Developed a low-level car rental system to manage bookings and vehicle records.

- Focused on logic optimization and efficient use of Assembly language operations.
- **Tools Used:** MASM (Assembly Language)

Library Management System

github.com/Library-management-system

- Developed a command-line based system in C that allows users to add, issue, return, delete, and search books using file handling.
- Designed for small libraries and academic use to streamline book management without internet access.
- **Skills:** C (Programming Language), Linux Tools, File Handling, Operating Systems

Skills Summary

Languages: C, C++, Python, JavaScript, Bash, SQL, MASM, Go

Tools: Git, Wireshark, Cisco Packet Tracer, Burp Suite, DVWA, WebGoat, PortSwigger Labs

Platforms: Linux, Visual Studio Code, Visual Studio, Jupyter, Anaconda, MEmu

Soft Skills: Problem-Solving, Cybersecurity Awareness, Team Leadership, Project Management, Strong Communication

Awards and Honors

Dean's List of Honors

FAST NUCES

- Dean's List – Spring' 2025
- Dean's List – Fall' 2024
- Dean's List – Spring' 2024