

Aliza Fatima

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github.com/AlizaFatima12

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 <i>CGPA: 3.42 / 4.00</i>	<i>Aug 2023 – Present</i>
Govt. Degree College Malir Cantt, Karachi – Intermediate <i>Grade: A</i>	<i>Oct 2021 – Jun 2023</i>
Qamar e Bani Hashim Higher Secondary School – Matriculation <i>Grade: A+</i>	<i>Jun 2021</i>

Work Experience

Penetration Tester – Internship , Trillium Information Security Systems	<i>June 2025 – July 2025</i>
• 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