



# Muhammad Hassan Muzaffar

## BS (Computer Science)

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### Education

National University of Computer and Emerging Sciences, Lahore Campus

BS (Computer Science) - 2025

Government Graduate College, Layyah

F.Sc - Pre Engineering - 2021

### Projects/Portfolio

#### Cyber Matrix

Developed a web app for automated penetration testing using Nmap, Gobuster, and John the Ripper, with CVE reporting to identify vulnerabilities. Runs commands on Kali Linux hosted on AWS. Built with React, Material UI (frontend), Flask (backend), and features an OpenAI-powered chatbot for cybersecurity analysis.

#### Career Compass

MERN stack job portal that streamlines recruitment by enabling admins to post jobs and users to apply and track applications. It features an AI chatbot for resume and cover letter guidance and a Resume Analyzer for applicant filtering.

#### Crypt Connect

A secure messaging platform built with React, Firebase, Ant Design, and Crypto-JS, ensuring end-to-end encryption and data privacy. It uses the Diffie-Hellman key exchange for secure message transfer.

#### AQI Value Prediction

Developed an AQI value prediction model by scraping data from IQAir using Selenium and BeautifulSoup, followed by feature engineering and EDA. Implemented Random Forest, Linear Regression, Gradient Boost, and DNN for accurate predictions.

#### University Complaint Management System

A university complaint management system in C++ language using the concepts of object oriented programming and applying SOLID Principles.

### Activities, Honors & Awards

**Teacher Assistant of PDC**, FAST NU, Lahore

**Deans List Fall 2024**, FAST NU, Lahore

**Frontend Developer Intern**, Musketeers Tech, Lahore

### Skills & Tools

#### Programming Skills & Tools

C++, C, JavaScript, TypeScript, React, Next.js, Node.js, Flask, Python 3, SQL, HTML, CSS, Redux, Material-UI, Ant Design, MongoDB, C#, Asp.Net, Postman, Git, Github, RESTAPI, Figma, AWS, Arduino Programming, Jupyter Notebook, Google Colab, VS Code

#### Interests & Hobbies

Sports, Cricket, Football, E Gaming, AI & Machine Learning, Web Development, Open-Source Contributions, Building Full-Stack Applications, Exploring New Frameworks & Technologies, Cloud Computing, Reading tech Related Documentation.