

MUHAMMAD HAMZA

+92-3082113844 hamzaansari6060@gmail.com linkedin.com/in/muhammad-hamza-b70b3b252
https://github.com/HaMi67011 Pakistan

SUMMARY

I am a Computer Science graduate with extensive hands-on experience in cybersecurity, front-end development, and creating innovative solutions. I have developed automated systems leveraging machine learning and designed intuitive UI components for SaaS applications. Proficient in programming languages such as Python and Rust, I am passionate about AI and blockchain technologies. I continuously seek opportunities to deepen my technical knowledge and drive impactful innovations.

PROJECTS

Automated Cyber Attack Detection System(AI/ML/Networking/Cyber)

08/2023 - 06/2024 Pakistan

Automated Cyber Attack Detection System aimed at improving threat response.

- Built detection system with TensorFlow and Genetic Algorithms (90% accuracy).
- Developed a Flask-based user interface.

Eye Disease Detection System(AI/ML)

Eye Disease Detection System for healthcare application.

- Designed backend using ML for eye disease detection.
- Integrated image processing and Flask for efficient data handling.

Custom DB (RUST)

Web application development project.

- Developed web application with Rocket framework.
- Designed a Custom Database.

Voting System (Solidity)

Blockchain project focusing on secure voting.

- Built a decentralized voting system with Solidity on Ethereum.
- Ensured secure and immutable processes.

RFID Scanner(Python)

RFID Scanner project enhancing student verification processes.

- Used Excel as a database to store student records and integrated it with the system.
- Created a user interface with Tkinter for easy interaction and operation.

Web Crawler (C++ & Threads)

A web crawler developed in C++ using multithreading for efficient and concurrent web scraping, designed to crawl and collect data from multiple websites in parallel.

- Utilizes threads for concurrent web crawling, improving performance and speed.
- Crawls multiple websites simultaneously, parsing and storing relevant data from each page.

Hostel Management System (C# & Oracle DB)

A hostel management system built with C# and Oracle Database to streamline operations such as room allocation, fee management, and student data handling.

- Manages room allocation and student fee records efficiently.
- Uses Oracle DB to store and manage student and hostel data securely.

2048 Game (NASM Assembly)

A 2048 game implementation using NASM assembly language, providing a low-level, efficient version of the popular sliding puzzle game.

- Built from scratch using NASM assembly, focusing on minimal resource usage.
- Implements game logic, including sliding tiles and merging identical numbers to reach the 2048 tile.

Hangman(C++ and QT)

Developed a Hangman game using C++ with Object-Oriented Programming (OOP) principles and a GUI built with Qt. The game allows players to guess letters and track progress, featuring error handling and customizable word lists.

- Structured code using classes and objects to represent game components.
- Developed using Qt to create a smooth, interactive game environment.

EDUCATION

Bachelor's in Computer Science

FAST National University of Computer And Emerging Science

2020 - 2024 Pakistan

EXPERIENCE

Network Security Analyst

CodeAlpha

06/2024 - 06/2024 Remote

Company focused on cybersecurity solutions.

- Used Python and network tools to mitigate security risks.
- Created scripts for network activity analysis.

Artificial intelligence

CognoRise INFOTECH

07/2024 - 07/2024 Remote

AI intern (remote)

- Completed four diverse AI tasks as part of an internship, involving different problem-solving approaches and machine learning techniques.

Frontend Developer

Oria

06/2023 - 08/2023 Remote (France)

Remote frontend development for a SaaS platform.

- Developed UI components with React for SaaS platform.
- Integrated AI chatbots for enhanced customer support.

SKILLS

Algorithms	Blockchain	Ethereum	EXCEL
flask	Git	Github	Linux
Python	RFID	Rust	solidity
Tensorflow	tkinter		SQL

KEY ACHIEVEMENTS



GDSC Media Team Lead

Led media team at FAST NUCES, demonstrating leadership and teamwork.



Google Coding Challenge

Ranked 700-800 in Google Coding Challenge showcasing strong problem-solving skills.



HEC Centralized Test

Secured 62.8% in HEC Centralized Test indicating academic competency.