Hamna Asif

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EDUCATION

National University of Computer and Emerging Sciences (FAST-NUCES)   **2022 - 2026**
- BS (Computer Science)   CGPA: 3.16/4.00
- 6/8 semesters completed

Punjab group of Colleges, Faisalabad   **2020 - 2022**
- 939/1100

PAEC Foundation School, Faisalabad   **2018 – 2020**
- 1019/1100

PROJECTS

Candy Crush Game (C++) -- Developed a console-based Candy Crush–style game in C++ with scoring and level mechanics.

Transport Management System (C++) -- Implemented this using OOP for managing vehicles, drivers, bookings, and fares.

Dictionary System (C++) -- System using AVL Trees for efficient word search, insertion, deletion, and suggestions.

Ping Pong Game (Assembly Language) -- Single/multiplayer game with AI, paddle control, ball movement, scoring, menus.

MiniOS (C) -- A GUI-based Operating System with multitasking, background processing, and system control features.

Hospital Management System (C# & Oracle) -- A feature-rich desktop solution for managing patients, appointments, staff, and revenue with role-based access and real-time medical record handling.

P2P Communication App (Python) – Hybrid P2P file sharing and encrypted group chat with file version control and aut0-sync.

Compiler (Python, Flex, Bison, Graphviz) -- Developed full compiler (frontend, middle-end, backend), implementing all phases.

Art Gallery Web Application (HTML, CSS, JavaScript, Bootstrap, Node.js, Express.js, MongoDB, JWT, Multer, Nodemailer, Cloudinary)-- Full-stack app for art showcase, exhibitions, and e-commerce with user auth and image support.

EXTRACURRICULARS

Security Team Co-Head, Daira '25   2025
- Co-led security operations for Daira '25, ensuring a safe and organized environment in coordination with fellow team heads.

Event Management Team Member, Daira '23   2023
- Assisted in logistics planning and execution for Daira 2023, ensuring smooth event operations.

Painting Competition Participant   2024
- Participated in an inter-university art contest, demonstrating creative expression and artistic skill.

SKILLS

Languages: C++ , C , Python, HTML , CSS, Javascript
Tools/Frameworks: VSCode, Wireshark, GitHub, Jupyter Notebook, DOSBox, VMware, Figma, Google Colab, Canva, Visual Studio, Flex, Bison, Graphviz, Node.js, Express.js, MongoDB, Bootstrap, JWT, Multer, Nodemailer, Cloudinary.