

Ali Hassan

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EDUCATION

Fast National University of Computing and Emerging Sciences

B.S. (Computer Science)

Chiniot, Pakistan

Expected Graduation, May 2026

- **Concentrations:** Artificial Intelligence Applications and Web Development
- **CGPA:** 3.64 (currently enrolled in 5th semester)
- Consistently awarded for exemplary academic performance in all previous semesters from fall-22 to spring-24.
- **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Computer Organization & Programming, Discrete Structures, Operating Systems, Design and Analysis of Algorithms; demonstrated strong proficiency and command in these core programming subjects.

SKILLS

- *Programming Languages:* C++, C, C#, Python, NASM (Assembly), JavaScript
- *Web Development:* HTML/CSS, Tailwind CSS, Bootstrap, React, Node.js (actively pursuing)
- *Database Management Systems:* SQL, PL/SQL.
- *Software Proficiency:* Git, GitHub, Visual Studio Code, Visual Studio, Microsoft Office Suite (Word, Access, PowerPoint, Excel), Microsoft Visio
- *Additional Skills:* jQuery, Express.js, Docker, Postman; strong problem-solving abilities, team collaboration, and familiarity with Agile methodologies

EXPERIENCE

- **Web Development and AI Applications Specialist:** Designed and implemented dynamic web applications using HTML/CSS, JavaScript, React, and Node.js. *Developed AI solutions with Python and machine learning, utilizing SQL for oracle database management.* Enhanced expertise through Coursera and DataCamp certifications, including *'AI for Everyone'* and *Python for Data Analysis*.
- **Teaching Assistant:** Provided leadership in Digital Logic Design, Calculus, and Applied Physics. Developed instructional materials, mentored students, and managed responsibilities to support academic success.
- **Game Development Enthusiast:** Explored game development with Unity, applying design principles and gaining experience through targeted online courses.

PROJECTS

- **AI Chatbot with Gemini API:** Developed a sophisticated AI chatbot with React, Node.js, and JavaScript, integrated with the Gemini API for natural language interactions. [GitHub](#)
- **Flashcard Generator with Firebase and Llama API:** Created a comprehensive flashcard application featuring user authentication, subscription models, and dynamic flashcard generation using Firebase and Llama 3.1 API.
- **E-commerce Website Clone (INTULUX):** Cloned an e-commerce platform with HTML, CSS, and JavaScript, replicating interactive features and a responsive design. [GitHub](#)
- **Modern React Landing Page with Advanced Animations:** Developed a visually appealing landing page using React, Node.js, and JavaScript with smooth animations and interactive elements. [GitHub](#)
- **Flex Academic Management System:** Implemented a comprehensive academic management system in C++ with distinct functionalities for administrators, students, and teachers. [GitHub](#)
- **Admin Panel and POS - Pantry Tracker:** Designed an HTML/CSS admin panel and developed a pantry tracker using JavaScript for effective inventory management. [POS](#) | [Admin-Panel](#)
- **Airline Management System:** Built a comprehensive airline management system using C# and WinForms, covering flight management, scheduling, and passenger check-ins.
- **Dictionary Application:** Designed and implemented a C++ dictionary application, leveraging advanced data structures for efficient data management. [GitHub](#)
- **Snake Game (NASM Assembly):** Developed a classic snake game using NASM assembly language, demonstrating low-level programming skills.

ACTIVITIES AND LEADERSHIP

Daira-23 & Daira-24 (Organizing Committee Member)

FEGS- fast-gaming society

GDSC – NUCES

MLSA – NUCES

CYBERSECURITY – NUCES

Goonj – Fast Goonj Society

NUCES, FSD

March 2023 & 2024

Event management

current member

Event management

Technical member

current member