

Ali Hassan

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[Website](#) | [LinkedIn](#) | [Github](#)

SOFTWARE ENGINEER

A highly motivated Computer Science graduate from **FAST** National University, with a **GPA of 3.67/4**. I specialize in **full-stack development**, using technologies like **Next.js**, **React**, **Node.js**, **MongoDB**, **Express.js** and **Flask** to build web applications. I'm skilled in creating user-friendly platforms with secure features and use **Git** for collaborative development.

TECHNICAL SKILLS

Languages: Python | JavaScript | TypeScript | C | C++ | HTML | CSS

Frameworks/Libraries/Tools: Next.js | Node.js | React | Selenium | Git | REST APIs

Databases: MySQL | MongoDB | Microsoft SQL Server

EDUCATION

Fast NUCES

Lahore / Pakistan

Bachelor of Science in Computer Science | **GPA: 3.67/4**

Aug 2021 – Jun 2025

- **Awarded a Gold Medal** and recognized on the **Rector's List** for achieving a perfect 4/4 SGPA in the final semester.
- Consistently recognized on the **Dean's List** for maintaining an SGPA above 3.50 in 6 out of 8 semesters

WORK EXPERIENCE

Systems Limited

Lahore (onsite) / Pakistan

Internship

Jul 2024 – Aug 2024

- Built a **Full-stack e-commerce** website using the **MERN (MongoDB, Express.js, ReactJS, Node.js)** stack with separate panels for **users** and **admins**.
- Worked on key functionality including product browsing, add to cart, secure checkout and user authentication.
- Created an admin dashboard for managing products and viewing customer data.
- Implemented product CRUD operations with a user-friendly React interface for easy product management.

Fast NUCES

Teaching Assistant

- Evaluated **quizzes** and **assignments** for over **150+** students across Design and Analysis of Algorithms, Artificial Intelligence, Data Structures courses.

PROJECTS

Brain Stroke Segmentation using Federated Machine Learning | *React, Flask, Swin-UNETR*

[Github](#)

- Trained Swin-UNETR, a transformer model, for brain stroke segmentation on the ISLES 2022 dataset (250 3D scans).
- Built a federated ML setup with data split across multiple clients for decentralized training, achieving **0.70** accuracy.
- Developed a web app using React and Flask that lets doctors upload MRI scans and visualize brain strokes.

Mentor Mesh | *MERN Stack*

[Github](#)

- Developed a MERN stack web app for FYP supervisor selection and mentorship
- Implemented secure **authentication**, **password recovery**, project idea posting and approvals by instructors.
- Integrated **Socket.io** for real-time chat and notifications to enhance collaboration between students and faculty.

Movie Streaming Platform | *Next.js, MongoDB*

[Github](#)

- Built a movie streaming platform combining features of Netflix and IMDb.
- Added user features like search, delete, rate, and mark movies as favorites with efficient API usage.
- Created an admin panel for adding, editing, or removing movies, cast, categories, and content types.