

# Muhammad Taha

Lahore • 03183713560 • muhammadtaha2723@gmail.com • <https://mtaha-23.github.io/Portfolio>

An ambitious student currently doing a bachelor's in Computer Science from FAST NUCES, skilled in problem-solving and analytical thinking, with an ability to collaborate effectively with others to achieve project goals. Seeking a position that will provide hands on experience. Passionate about learning new technologies and eager to contribute to a dynamic team environment.

## EDUCATION

### BS(CS)

FAST NUCES • GPA: 3.28

Aug 2022 - Present

## PROJECTS

### FASTConnect

Web-based AI platform for FAST-NUCES admissions and student support. Features include an AI chatbot for admission queries, AI entry test practice, predictive analytics, batch advising, social feed, and a 360° virtual campus tour.

### Naqsh-e-Urdu

Developed a Seq2Seq model to translate Urdu poetry to Roman Urdu using BiLSTM encoder and multi-layer LSTM decoder with BPE tokenization. Built from scratch for NLP coursework with a live demo available.

### Urdu Chatbot

Built a custom Urdu conversational chatbot in PyTorch from scratch using a Transformer architecture. Cleaned a 20k dataset, implemented attention, positional encoding, and teacher forcing manually. Deployed via StreamLit with right-to-left Urdu support.

### Eventoria

A web platform connecting customers with vendors to book venues and services for events, conferences, and meetings.

### Airline Management System

Developed a C# Windows Forms application with SQL database to streamline airline operations including ticket reservations, flight scheduling, crew management, maintenance tracking, passenger services, revenue management, baggage handling, and reporting & analytics.

### Mini OS

Developed a terminal-based OS with utilities like a text editor, calculator, and games. Implemented process/thread management, context switching, multitasking, and interrupt handling for efficient resource utilization.

## TEACHING ASSISTANT

### FAST NUCES

Aug 2024 - Present

Artificial Intelligence

Jan 2026 - Present

Software Engineering

Aug 2025 - Present

Database Systems

Aug 2024 - Dec 2025

## ACHIEVEMENT & CERTIFICATIONS

### Dean's List – Spring 2024 & Fall 2024

Database Structures and Management with MySQL

Mar 2024

META

Python for Data Science, AI & Development

Jan 2024

IBM

## VOLUNTEERING & LEADERSHIP

Lead - Google Developer Groups on Campus FAST NUCES CFD

Management - TEDxFAST Faisalabad (2024-25), Daira (2023-26), ICIT '24, Job Fair (2024-25)

## SKILLS & TOOLS

**Skills:** Assembly, C++, CSS, HTML, Javascript, Next.js, Python, SQL

**Tools:** Adobe Illustrator, Bison, Canva, Figma, Firebase, GitHub, MS Office, Oracle, Streamlit, Visual Studio, VS Code