

# Muhammad Taha

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

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Computer Science graduate from FAST NUCES with a strong interest in software development and problem-solving. Through academic projects and experience in organizing multiple events, I've developed strong teamwork, communication, and time management skills in fast-paced environments. I enjoy learning new technologies, solving challenging problems, and building practical solutions that create real impact.

## EDUCATION

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### BS(CS)

FAST NUCES • GPA: 3.28

Aug 2022 - Jun 2026

## PROJECTS

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### 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.

### 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

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### FAST NUCES

Aug 2024 - Jun 2026

#### Artificial Intelligence

Jan 2026 - Jun 2026

#### Software Engineering

Aug 2025 - Jun 2026

#### Database Systems

Aug 2024 - Dec 2025

## ACHIEVEMENT & CERTIFICATIONS

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

### Database Structures and Management with MySQL

META

### Python for Data Science, AI & Development

IBM

## VOLUNTEERING & LEADERSHIP

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### 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

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

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