

MUHAMMAD TALHA

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PROFESSIONAL SUMMARY

I am a passionate and dedicated computer science undergraduate from Lahore, with 4 years of coding experience, focused on developing innovative software solutions and continuously expanding my technical expertise.

ACADEMIC HISTORY

**University of Engineering and Technology,
Lahore | 2023-Present**

Bachelor of Science in Computer Science

- Cumulative GPA : 3.82/4.00

Punjab Group of Colleges | 2021-2023

Intermediate in Computer Science (ICS with Physics)

- Grade : A

**The Punjab School, Khayaban-e-Jinnah Campus,
Lahore | 2019-2021**

Matriculation, Biology, General

- Grade : A+

PROGRAM COURSES

- **Core Courses:** CSC-103 Object Oriented Programming, CSC-200 Data Structure and Algorithms, CSC-207 Advanced Database Management Systems, CSC-202 Artificial Intelligence, CSC-204 Software Engineering, CSC-205 Computer Organization & Assembly Language, CSC-300 Operating Systems, CSC-301 Introduction to Human Computer Interaction
- **Supporting Courses:** MA-123 Calculus, MA-104 Calculus-II, MA-205 Applied Statistics and Probability, MA-234 Linear Algebra, PHY-111 Applied Physics, CSC-105 Digital Logic Design
- **University Electives & Domain Electives:** HU-102 Functional English, HU-111L Communication Skills, IS-101 Islamic & Pakistan Studies-I, MGT-105 Introduction to Economics, SE-341 Software Project Management, CSC-415 Web Technologies

SKILLS

Domain Skills

- **Technologies:** Dart, C++, C#, Python, HTML, CSS, JavaScript, SQL, MongoDB
- **Development Frameworks:** React, Tailwind CSS, NumPy, PyTorch, .NET Core, jQuery, ASP.NET Web API, Scikit-Learn, Laravel
- **Productivity Tools:** Spyder 6, Visual Studio Code, Visual Studio 2022, GitHub, GitHub Desktop, Figma, Android Studio, SQL Server Management Studio, Wireshark, Proteus,

Interpersonal Skills

Typing 60 wpm, Problem Decomposition, Team Collaboration (Agile Methodologies), Positive Attitude, Articulate Written and Spoken Communication, Patience, Active Listening, Time Management

PROJECTS

Restaurant Management System (RMS)

C#, .NET, SQL Server

- Full-stack desktop application with role-based modules (Admin/Customer/Waiter/Chef).

- Designed SQL Server database (20+ tables, cascades, normalization).
- Implemented order tracking, reservations, inventory, messaging, reports (Crystal Reports).
- Secure login system using parameterized SQL queries.
- Built responsive UI using WinForms.

Threat Guard – Cybersecurity Detection & Protection System

Python (Flask), HTML, CSS

- Integrated phishing detection, malware scanning, DDoS rate-limiting, and breach monitoring.
- VirusTotal API integration for URL/file scanning; HIBP API for compromised email checks.
- Used SQLAlchemy + SQLite for storing phishing URLs, blocked IPs, credentials.
- Admin dashboard for system monitoring.

Solitaire Klondike Card Game

Python, PyGame

- Fully playable Solitaire using stacks, queues, linked lists, and dictionaries.
- Implemented deck shuffling, drag-and-drop, and win logic.

Relational Database from Scratch

C++, CLI

- Built RDBMS with parser, executor, buffer pool, B+ tree indexing, and role-based access.
- Added transaction locks, backup/restore, and modular architecture.
- Command-line query executor + unit tests for all modules.

Smart Rain-Sensing System – Auto Shade

ESP32, Arduino, IoT

- Rain detection + servo-based automated shade control.
- UART communication, LCD display, MQTT integration, and full hardware implementation.

CoLab RnD – Researcher & Developer Collaboration Platform

React (TypeScript), Express (TypeScript), PostgreSQL, Prisma ORM, Tailwind CSS

- Designed and developed a collaboration platform that enables researchers to outsource repetitive and time-consuming tasks to students, allowing focus on core research work.
- Implemented a role-based system where Admins manage Supervisors, Researchers, and Students using secure CRUD operations.
- Built Researcher workflows for task creation, assignment, and lifecycle tracking, with visibility across all relevant roles.
- Enabled Supervisors to manage students and monitor task progress for oversight and accountability.
- Developed Student interfaces to view, accept/reject, and update task status throughout execution.
- Applied industry-level Agile practices (Scrum & Scrum-of-Scrums), integrating MCP-based agentic servers and delivering the project through structured sprints, reviews, retrospectives, and team collaboration.

WORK EXPERIENCE

Freelancing and Communication & Soft Skills Courses | August 2025 – November 2025

DigiSkills, Virtual University of Pakistan

Remote

- Completed structured courses with weekly exercises and quizzes.
- Learned client communication, proposal writing, negotiation, and freelancing workflow.
- Enhanced email etiquette, presentation skills, and teamwork.

Content Writing and Research Intern | September 2025 – October 2025

Code ALPHA

Remote

- Wrote 3 research papers on digital content trends, AI in writing, and content marketing.
- Conducted research, data analysis, and literature review for evidence-based writing.
- Improved content readability, SEO alignment, and academic structuring.
- Edited and proofread content ensuring accuracy and clarity.

Mobile Application Development Intern | June 2024 – August 2024

TIERS Limited

Remote

- Completed intensive Flutter internship covering Dart, Firebase, SQLite, REST APIs.
- Built multiple mini-projects and a final app: Crumb & Crave (cake ordering app).
- Implemented search, cart, favorites, delivery options, and clean UI screens.
- Gained strong skills in navigation, routing, SharedPreferences, and Firestore.

Home Tutoring | December 2024 – March 2024 (On-Site)

CERTIFICATIONS

CODEX 2.0 Programming Competition - Problem Solving, UET Lahore

[View Certificate](#)

ITEC Quiz Competition - UET Lahore

[View Certificate](#)

React - HackerRank

[View Certificate](#)

Fundamentals of Predictive Project Management - Project Management Institute Kickoff

[View Certificate](#)

Fundamentals of Agile Project Management - Project Management Institute Kickoff

[View Certificate](#)

Freelancing - DigiSkills, Virtual University of Pakistan

[View Certificate](#)

Communication and Soft Skills - DigiSkills Virtual University of Pakistan

[View Certificate](#)

SEMINARS

The Art of Storytelling - Chemical Engineering Seminar Hall, UET Lahore

October 2023