

# MIAN SAAD TAHIR

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## Education

**University of Engineering and Technology, Lahore**

*Bachelor of Science in Computer Science*

**Sep. 2023 – May 2027**

*CGPA: 3.5*

**KIPS College, Lahore**

*Intermediate in Computer Science*

**Nov. 2021 – May 2023**

*Grade: A+*

## Relevant Coursework

- Data Structures
- Algorithms Analysis
- Database Systems
- Computer Architecture
- Computer Networks
- Software Engineering
- Artificial Intelligence
- Information Security

## Experience

**Hack Secure**

*Cyber Security Intern*

**Apr. 2025 – May 2025**

*Remote*

- Performed comprehensive web application assessments using Nmap, Gobuster, and Wireshark to identify open ports, misconfigured directories, and insecure data transmission.
- Exploited critical vulnerabilities including SQL Injection with sqlmap to enumerate databases and dump sensitive data, and XSS to demonstrate stored and reflected script injection.

## Projects

**Price My Ride – Used car price estimator | Flask, TensorFlow, Keras, Scikit-Learn**

**Source Code**

- Developed a Flask web app that predicts used car prices using a custom-trained Deep Neural Network (DNN) model.
- Built a 3-layer DNN using TensorFlow and Keras with One-Hot Encoding and visualized key regression metrics.
- Prepared an IEEE-format research paper detailing the project's methodology, experiments, evaluation, and results.

**Threat Guard – Cybersecurity web app | Flask, Python, SQLite, REST API**

**Source Code**

- Built a Flask app to scan URLs, files, and QR codes for malware using VirusTotal API and jsQR.
- Integrated breach detection through the HaveIBeenPwned API to check if emails or passwords have been compromised.
- Implemented user authentication with hashed passwords and managed data using SQLite databases.

**Nike Store – Inventory management system | C#, Windows Forms, MSSQL**

**Source Code**

- Developed a Win Forms POS system with SQL database for inventory control and customer order management.
- Implemented a modular 3-tier architecture with separate business logic, data access, and UI layers for scalability.
- Implemented object-oriented programming practices such as inheritance to create different account types and databases.

**Video Nexus – Video entertainment platform | HTML, CSS, JavaScript**

**Live Preview**

- Built a web video platform that allows users to browse and play content across multiple categories.
- Designed a clean, responsive frontend with custom playback controls using vanilla JavaScript.

**Escape Plan – 2D GUI shooter game | C#, Windows Forms**

**Source Code**

- Developed a Windows-Forms based tank battlefield game showcasing dynamic movement and firing mechanics.
- Designed modular DLL architecture and implemented key OOP principles including Interfaces, Singleton, and Enums.
- Built gameplay features like real-time player control, enemy tanks, final boss plane, health system and collisions.

## Technical Skills

**Languages:** Python, C#, C++, SQL, JavaScript, HTML, CSS

**Developer Tools:** VS Code, Git, Jupyter, Colab, Arduino IDE

**Libraries / Frameworks:** TensorFlow, Keras, Flask, Scikit-Learn, Pandas, MSSQL, WinForms, Jinja2

## Extracurricular

**Codex 2.0**

*Coding Competition Participant*

**Nov. 2023**

*UET Lahore*

- Participated in problem-solving rounds hosted by Software Square Society
- Successfully solved 2 out of 3 problems in a time-constrained, team-based competition.