Toheed Ali

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EDUCATION

PUNJAB GROUP OF COLLEGES   Lahore, Pakistan
Intermediate, ICS Physics   Graduated: April 2024
Score: 86%

INFORMATION TECHNOLOGY UNIVERSITY   Lahore, Pakistan
Bachelor of Science in Computer Science   Undergraduate: 2024 - 2028
Cumulative CGPA: 3.4 / 4.0
Relevant Coursework: OOP, Data Structures & Algo, Database Systems, Mobile App Development

PROFESSIONAL SUMMARY

Passionate and skilled software developer with a strong foundation in C++, Python, and modern development tools. Experienced in building real-world projects, including games, logic engines, and desktop applications, with a focus on clean code, efficiency, and scalability. Known for quick learning, creative problem-solving, and taking initiative in academic and personal projects. Thrive in team environments and committed to delivering high-quality, impactful solutions.

UNIVERSITY PROJECTS

Smart Object Detection App with Security System (Flutter)
- Developed a mobile application for real-time object detection using computer vision techniques.
- Integrated camera handling, model inference, and security-focused monitoring features for smart surveillance.

University Management System
- Built a cloud-based university management system on AWS EC2 with custom B-Tree and hash table data structures for fast data access.
- Designed RESTful APIs, automated timetable generation, role-based access control, and a complete database layer with custom serialization.

Console based File Explorer (C++)
- Designed an OOP command-line file explorer supporting directory navigation, file creation, deletion, and editing etc.
- Engineered deep folder copy and persistent hierarchy storage for full directory restoration.

Reversi (Othello) with AI (Python)
- Created a Reversi game with an AI opponent using the Minimax algorithm for optimal move selection.
- Implemented heuristic board evaluation to enable intelligent and strategic gameplay decisions.

Chess Game (C++)
- Built a two-player console chess game implementing standard piece movement, turn management, and board rendering.
- Added check and checkmate detection to ensure complete rule-based gameplay.

ACTIVITIES

GOOGLE DEVELOPER GROUPS (GDG)   2024 - Present
Committee Member
- Coordinated and executed 3+ hackathons and coding bootcamps with over 600 participants.
- Facilitated mentorship and networking opportunities for students and professionals.

GREEN YOUTH MOVEMENT CLUB (GYM)   2025 - Present
Head of Events
- Led event planning and coordination for community and environmental initiatives.
- Organized workshops and campaigns, enhancing club engagement and outreach.

ADDITIONAL

Programming Languages: Python, C++, HTML, CSS, JavaScript
Technical Skills: MySQL, Git & GitHub
Languages: English, Urdu
Certifications:
- Microsoft Office Specialist (MOS) – Microsoft (Issued: November 2023)
- Code Rush - Programming Competition – ITU (Issued: March 2025)