

Dua Rizwan

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Education

University of Engineering and Technology

Bachelor in Computer Engineering

Punjab College

F.Sc.

Lahore, Pakistan

Sept. 2023 – Present

Burewala, Pakistan

March 2020 – May 2022

Experience

- Playing a key role in troubleshooting design-related challenges during event planning and execution.
- Mentoring junior designers, providing feedback and fostering an environment of creative growth. Developed a user-friendly GUI using Tkinter that mimics the original ECAT exam interface.
- Contributed to the creation of compelling visuals that significantly boosted engagement and visibility of ACM UET Lahore's events, resulting in higher participation rates.

Projects

ECAT App | *Python, Tkinter*

March 2024 – April 2024

- Developed a user-friendly GUI using Tkinter that mimics the original ECAT exam interface.
- Incorporated a countdown timer that starts when the test begins and stops automatically once the test time expires.

Cardio-Health Analyzer | *Python, Tkinter, smtplib*

April 2024 – May 2024

- Created a comprehensive healthcare tool that combines data analysis, health tracking, and user interaction in a single application.
- Implemented a functional and user-friendly chatbot that provides real-time assistance, enhancing the user experience.
- Implemented functionality to save all user records to an Excel or CSV file for future tracking and reference.

Code Tutor | *Flutter, Android Studio*

July 2024 – August 2024

- Integrated a library of pre-stored Python code snippets covering key topics such as loops, conditionals, functions, and data structures.
- Focused on making the design intuitive, ensuring even beginner users could navigate easily and enjoy learning Python.

Pacman Game | *Java, Swing, AWT*

November 2024 – December 2024

- Built interactive game interface using JFrame, JPanel, and KeyListener.
- Applied OOP concepts with separate classes for game logic and enemies, including a static inner class for modular enemy behavior.

Automatic Rain-Detection System | *Circuits and Electronic Devices*

December 2024 – January 2025

- Developed an automatic rain detection system using sensors to trigger a protective roof cloth mechanism for weather responsive covering.

Notes-App | *HTML, CSS, JavaScript*

March 2025

- Developed a dynamic Notes Web App using HTML, CSS, and JavaScript with local storage support and Markdown rendering.

Course Registration System | *Python, Django, MySQL, HTML, CSS, Bootstrap,*

April 2025 – May 2025

- Developed a full-stack Django-based course registration system with models for Students, Teachers, Courses, and Instructors, enabling CRUD operations via an interactive admin panel.
- Integrated Django admin, templates, and form handling for GUI-based registration, authentication, and dynamic course assignment.
- Implemented custom model relationships, migrations, and validations, ensuring database integrity and seamless navigation across components.

Technical Skills

Languages: Java, Python, C/C++, SQL, C, HTML, CSS, JavaScript

Frameworks: Flutter, MySQL, Django, Bootstrap

Developer Tools: Android Studio, Jupyter, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Dev-C++, Proteus 8, Adobe Illustrator, Adobe Photoshop, Canva