

Education

BS Computer Engineering (since 2022):

Expected Graduation: 2026

COMSATS University Islamabad, Lahore Campus.

Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Database Systems, Mobile Application Development, Operating Systems, Data Communication and Computer Networks, Artificial Intelligence

Projects

- Gommerce - Modern E-Commerce Platform (Golang, RESTful APIs)2025
 - A responsive e-commerce web app using Go (Gin framework) with RESTful APIs for dynamic product management and user interactions.
 - Implemented real-time product search and filtering, enhancing user experience and reducing query response time.
 - Designed and styled front-end components with HTML5, CSS Grid, and Flexbox for mobile-first, modern UI performance.GitHub.
- Draculator (Rust, GUI)2024
 - Draculator is a graphical user interface (GUI) calculator application, built using the Druid framework in Rust.
 - Application offers a simple and interactive way to perform basic arithmetic operations. GitHub.
- Fretch (Flutter, Mobile App Development, Rust)2024
 - Developed a cross-platform video downloader using Flutter and Rust, integrating yt-dlp for multi-platform support (YouTube, Vimeo, etc.) and enabling high-performance video processing with a Rust backend.
 - Designed and managed a robust download history system and metadata extraction layer, enhancing user experience and maintaining a clear record of all video activity.
 - Implemented advanced download features, including concurrent downloads, background task support, and customizable video quality/format options, improving user control and efficiency.GitHub.
- Wi-Fi Controlled RC Car For RoboWars (Embedded C++, Esp32)2024
 - Designed and built a WLAN-controlled car using ESP32.
 - Competed in IEEE RAS Robo Wars 2024
- QuizMasterPro_WebEdition (React, Express.js)2023
 - QuizMasterPro is a secure, user-friendly web-based quiz system.
 - It uses React, Express.js, Node.js, SQL Server, and AWS RDS.
 - Features include randomized questions, immediate grading, and performance analytics. GitHub.
- QuizMasterPro (C++, Procedural Programming, Object Oriented Programming)2023
 - QuizMasterPro is a command-line quiz application developed in C++.
 - Supports multiple user roles, including Admin, SubAdmin, SuperAdmin, and Student, each with distinct privileges.
 - Allows users to take quizzes organized by departments and provides administrative functions for user and course management. GitHub.

Volunteer Work & Experience

- ACM: Organized Activities for Association For Computing & Machinery2025
- Arbisoft: Took part in Mock Interviews.2024
- Fruitful Foundation Intern for Welfare: Assisted in welfare initiatives.2024 - 2025
- IEEE RAS: Team Head of Lightroom.2023
- Welfare Work For NGO (Kar-E-Kamal)2023

Language and Technologies

English; Urdu; German

HTML/CSS; JavaScript; Altera Quartus; Proteus; AutoCAD; Zrok; Wireshark; Cisco Packet Tracer; MATLAB;

Linux; Android Studio; C/C++; Dart; Python; Flutter, Office 365

Programming (C++, C, SQL Server)