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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 & Machinery**2025****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)