



Tayyaba Zubaid

Contact

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[Tayyaba Zubaid - LinkedIn](#)

[Tayyaba Zubaid - Github](#)

About Me

Computer Science undergraduate at Qarshi University with hands-on experience in building responsive web applications, interactive dashboards, and algorithm-driven systems. Skilled in HTML, CSS, JavaScript, C++, and Java, with practical exposure to UI/UX design, object-oriented programming, real-time data handling, and graph-based algorithms. Passionate about solving real-world problems through clean design and efficient logic, and eager to grow through challenging, real-world opportunities.

Skills

- Programming Languages:** C++, Java, Python, JavaScript
- Web Technologies:** HTML5, CSS3, Responsive Web Design
- Frameworks & Libraries:** Java Swing
- Data Structures & Algorithms:** Arrays, Linked Lists, Trees, Graphs, Dijkstra's Algorithm, Segment Tree
- Object-Oriented Programming:** OOP principles, Design Patterns (Observer)
- Tools & Platforms:** Git, GitHub, VS Code

Education

- Matric
Rana Grammar School, Lahore
Science Group
- Intermediate
Punjab Group of Colleges
FSc Pre-Engineering
- Bachelor's in Computer Science
Qarshi University
Expected Graduation: 2028

Projects

- Deenify - An Islamic Website Design**
 - Developed a mobile-responsive web application using HTML5 and CSS3, focusing on clean layouts, proper spacing, and a mobile-first user interface.
 - Implemented multi-page navigation by linking modular pages (Home, About, Features, FAQs, Contact) to improve usability and maintainability.
 - Organized and presented feature-based content in a structured, user-friendly design to enhance readability and accessibility on small screens.
- FinTrack - An Investment Dashboard**
 - Developed a comprehensive financial dashboard using Java Swing, engineering an interactive UI with dynamic graphs, custom table renderers, and a modular navigation system to track and visualize market data, investment portfolios, and profit/loss calculations.
 - Implemented core application logic using Object-Oriented principles, including an observer design pattern to ensure real-time data synchronization between UI panels and building a robust profit/loss calculator with multi-currency support.
- Pokemon Info Card - A Pokemon Encyclopedia**
 - Developed a dynamic Pokémon encyclopedia using JavaScript and PokeAPI, featuring real-time data fetching for 1,000+ entries and a custom-built local image repository for optimized performance.
 - Designed a responsive, themed UI/UX with advanced navigation features, including generation-based filtering, interactive stat visualizations, and seamless pagination to enhance user engagement.
 - Engineered robust search and filtering systems to provide an intuitive user experience, ensuring consistent branding and high-resolution visual delivery across all application modules.
- Disaster Evacuation Path Planner - A Console-Based Dashboard**
 - Developed a Real-Time Evacuation Planner: Engineered a C++ system using Dijkstra's Algorithm and Dynamic Graphs to calculate optimal safety routes during simulated urban disasters.
 - Optimized Risk Management: Implemented a Segment Tree to process environmental hazard data with O(log N) efficiency, enabling instantaneous path recalculation as disaster conditions evolved.
 - Simulated Complex Crisis Scenarios: Modeled infrastructure failures and flood events to validate system responsiveness, aligning technical implementation with SDG 11 (Sustainable Cities).



Certificates

- Introduction to Programming with Python and Java - Specialization Course by Penn Engineering and Coursera
- Intro to Web Development - by AKTI
- Work Smarter with Microsoft Excel - by Microsoft and Coursera