Syed Ammar Zulfiqar

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TECHNICAL PROFILE

Computer Engineering student with a strong foundation in system programming, computer networks, and full-stack web development. Proficient in designing scalable, data-driven applications and implementing intelligent solutions using modern machine learning techniques.

EDUCATION

FAST-NUCES, KARACHI, BS in CE (Computer Engineering)   **July 2022 – Present**
GPA: 3.12/4.00
Coursework: Object Oriented Programming, Data Structures and Algorithms, Data Communication and Networks, μP Interfacing and Programming, Embedded Systems, Operating Systems, Machine Learning.

CERTIFICATIONS

- **The Complete Full-Stack Web Development Bootcamp**
- **Linux & Shell Scripting (Basic to Advanced)**
- **CSS, Bootstrap, JavaScript, and PHP Stack**
- **Machine Learning - Fundamental of Python Machine Learning**
- **The Complete ISO/IES 27001 Information Security Management**

PROJECTS

Bank Management System (Java, OOP, Swing, NetBeans)
- Built a secure desktop banking system with authentication and core operations using Java Swing and OOP.

University Campus Network (Cisco Packet Tracer, VLANs, Routing)
- Designed a segmented campus network using VLANs, RIP v2, DHCP, and inter-VLAN routing.

Operating System Simulation (C++, Linux, Memory Management)
- Developed a Linux-based OS simulator implementing process states, multitasking, and dynamic memory allocation.

Digital Tachometer (ATmega32, Sensor Interfacing, Embedded Systems)
- Built a microcontroller-based RPM measurement system with real-time LCD display and signal processing.

DiabAI (Python, Machine Learning, Streamlit)
- Built a recall-optimized diabetes prediction web app with explainable ML using Random Forest and SHAP.

Stacklet (React, TypeScript, Supabase, Tailwind)
- Developed a full-stack book management platform with authentication, CRUD operations, and filtering.

TECHNOLOGIES

Skills: C, C++, Java, Python, Linux, HTML, CSS, JavaScript, Node.js, React, PostgreSQL.

Soft Skills: Leadership, Problem-solving, Teamwork, Time Management, Critical Thinking.

LANGUAGES

- **Urdu:** Native
- **English:** Professional