

Syed Ammar Zulfiqar

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TECHNICAL PROFILE

Computer Engineer skilled in microprocessor programming (AVR Studio/Assembly), computer networks (Cisco, VLANs), and Linux system programming. Passionate about hardware-software integration with hands-on experience in full-stack (MERN) applications.

EDUCATION

FAST-NUCES, KARACHI, BS in CE (Computer Engineering) **July 2022 – Present**
GPA: 3.15/4.00
Coursework: Object Oriented Programming, Data Structures and Algorithms, Data Communication and Networks, μ P Interfacing and Programming, Embedded Systems, Operating Systems.

CERTIFICATIONS

- The Complete Full-Stack Web Development Bootcamp
- Linux & Shell Scripting (Basic to Advanced)
- CSS, Bootstrap, JavaScript, and PHP Stack

PROJECTS

Bank Management System (Java, OOP, Swing, NetBeans)

- Built a secure virtual banking platform with features like deposits, withdrawals, and loan/chequebook requests.
- Integrated Java Swing GUI with authentication and role-based access to prevent unauthorized transactions.

University Campus Network (Cisco Packet Tracer, VLANs, Routing)

- Designed and simulated a segmented network using VLANs, RIP v2, and DHCP with Cisco routers and Layer 3 switches to enhance network segmentation and reliability.
- Enabled inter-VLAN communication for faculty, students, and administrative units through efficient routing.

Operating System Simulation (C++ , Linux, Process Memory Management)

- Developed a command-line OS simulator with dynamic memory allocation, process state transitions, and basic task management (games, file ops, utilities).
- Implemented modular C++ features (Tic Tac Toe, Notepad, Calendar, etc.) using Linux terminal, simulating multitasking and efficient memory handling.

Digital Tachometer (ATmega32, Sensor Interfacing, Embedded Systems)

- Developed a microcontroller-based tachometer using a proximity sensor to measure RPM and display it on an LCD.
- Implemented real-time signal processing and LED indicators for system status and error detection.

TECHNOLOGIES

Skills: C, C++, Java, Python, HTML, CSS, JavaScript, Node.js, React, PostgreSQL, Web3, DApps.

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

LANGUAGES

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