Shagufta Zainab

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Education

S.A. Engineering College, Chennai **2022 - 2026**
Bachelor of Engineering in Electronics & Communication *CGPA: 8.8*

Smt. Chandabai Pagariya Jain Mat. Hr. Sec. School **Grad. 2022**
Science Stream (Computer Science with Maths) *85.00%*

Skills

Networking: TCP/IP, IP addressing, subnetting, routing (static, dynamic, default) , switching (L2/L3), VLANs, network troubleshooting, hands-on practice using Cisco Packet Tracer (CCNA Training)

Programming: Working knowledge of Java (Intermediate) & Python (Basic)

Tools: Cisco Packet Tracer, Arduino IDE, Xilinx Vivado, Microsoft Office

Interpersonal: Analytical problem-solving, Clear technical communication, Time Management, Leadership, Team Management, Critical Thinking

Languages: English, Hindi, Tamil, Urdu

Experience

Simpson & Co Pvt Ltd, Intern (Certificate) **June 2025 – August 2025**

- Worked with SAP to manage and maintain enterprise digital data, ensuring accuracy and consistency across records.
- Identified discrepancies and resolved data issues through structured analysis and documentation.
- Collaborated across teams to improve reporting accuracy and workflow efficiency, strengthening problem-solving and cross-functional communication.

Projects

Network Simulation & Routing Labs (CCNA Practice) **2026**

- Built and tested multiple network topologies using Cisco Packet Tracer.
- Configured VLANs, routing protocols, IP addressing, and switching scenarios.
- Performed connectivity validation and troubleshooting across simulated enterprise networks.

High-Performance ALU Design for 32-bit RISC-V Processor **2025 - 2026**

- Designed a 32-bit ALU for a single-cycle RISC-V processor in Verilog HDL using Xilinx Vivado, replacing RCA and array multiplier with Brent-Kung adder and Vedic multiplier.
- Achieved 7.8 ns ALU delay and improved dynamic power efficiency (0.592 W vs 0.606 W) through parallel prefix carry computation and parallel partial-product generation.

Smart Cradle System **2025**

- Engineered an automated cradle using NodeMCU ESP8266, PIR sensor, and DHT11 module, featuring buzzer alerts and temperature monitoring for enhanced safety.

Certifications

- Cisco Networking Academy — **CCNA** (Modules 1–3) — In Progress
- Python—Dynamic CAD
- Enhancing Soft Skills and Personality—NPTEL (Top 5 % scorer)
- IoT and IIoT—Techknots Academy LLP

Achievements & Activities

Department Topper

- Awarded Department Topper twice during the B.E. program by maintaining exceptional academic performance and ranking highest in the department.

Intercollegiate Hackathon Participation – HackAIThon 2025

- Contributed by ideating the solution approach and debugging code using AI tools during the HackAIThon intercollegiate competition at Stella Maris College, collaborating in a fast-paced problem-solving environment.