Pragya Chaudhary
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Bachelor of Technology
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Education

•Bachelor of Technology in Computer Science and Engineering — 2023-27

SRM Institute of Science and Technology , Chennai — CGPA: 9.32
X-97%
XII-79.2%

Projects

•Restaurant Management System

Designed a database-driven system to streamline restaurant operations like orders, inventory, and reservations.

- Designed to streamline restaurant operations such as order tracking, inventory management, and table reservations.
- Crafted a dynamic and user-friendly platform to handle real-time inputs from staff and customers,structured the
- underlying data flow to ensure fast, reliable access to menu, order, and inventory information. Built using PHP and SQL/MySQL.

•Online Examination System

Backend-driven system to conduct, manage, and evaluate online examinations with secure data handling and automated score

– Built to facilitate secure and efficient online assessments, automating exam creation, submission, and evaluation pro cesses, item Developed backend logic to handle question generation, answer validation, and scoring; integrated a structured database to manage users, questions, results, and exam sessions securely and efficiently.

– Technology Used: Python(application logic), SQL (database management).

•Student Query System

Simulated a real-time query handling system using OS-level scheduling to efficiently manage and prioritize student and faculty requests.

- Designed to simulate real-time handling of student and faculty queries using scheduling principles, ensuring fair turnaround and minimal waiting times. Implemented using C in a Unix-based Operating System environment. Applied
- Round Robin scheduling to manage incoming queries based on arrival and burst times; the system calcu- lates waiting time, turnaround time, and completion time for each query, simulating a CPU process scheduler and providing summary analytics.

Experience

•IEEE SSIT — Aug 2023- Mar 2025
Onsite

- Gained a solid understanding of embedded systems, microcontrollers (e.g., Arduino), MQTT protocol, and cloud integration, along with security and power-efficient design principles for IoT.
- Proficient in designing, deploying, and managing connected solutions, integrating sensors with cloud platforms, and optimizing device communication for seamless operation.
- Led a workshop on “Smart Home Automation”, demonstrating projects with smart sensors like temperature sensors and motion detectors, showcasing IoT-based control and automation.

•Akash Research Labs — Aug 2023 - Aug 2024
Onsite

- Learned the fundamentals of computer organisation.
- Learned basics of ai tools and sensors.

Technical Skills and Interests

Languages: C/C++, Python, HTML+CSS
Frameworks: ReactJs
Cloud/Databases:Relational Database(mySql)
Relevent Coursework: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Software Engineering.
Areas of Interest: Web Design and Development.
Soft Skills: Problem Solving, Self-learning, Presentation, Adaptability

Positions of Responsibility

•Volunteered as part of the organizing team — Akash Research Labs — Sep2023-Aug2024

- Helped to attract close to 100 attendees to the event.
- contributing to event coordination and participant assistance.