



# Syed Affan Bin Rehan

Software Engineer

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## 📋 PROFESSIONAL SUMMARY

Aspiring Full Stack Developer with hands-on experience in MERN stack development and a solid academic background in Computer Systems Engineering. Proficient in creating responsive, user-focused web applications and integrating backend services. Strong problem-solving skills and internship experience in IT support within a corporate environment, with a deep interest in continuous learning and team collaboration. Eager to contribute to innovative development teams and grow in dynamic, fast-paced environments.

## 📁 PROFESSIONAL EXPERIENCE

### Intern as IT Engineer

Sui Southern Gas Company

07/2024 – 08/2024

Karachi, Pakistan

- Gained hands-on experience in diverse technologies, expanding technical expertise
- Supported IT infrastructure upgrades, enhancing overall system reliability
- Analyzed system performance, identifying areas for optimization
- Contributed to software development, improving user experience significantly

## 🎓 EDUCATION

### Bachelors in Engineering (Computer Systems Engineering)

Usman Institute of Technology (Affiliated with NED University)

2021

Karachi, Pakistan

Grade: Ongoing

### HSC

Govt. Delhi Inter Science College

2019 – 2021

Karachi, Pakistan

Grade: A+

### SSC

Karachi Public School

2017 – 2019

Karachi, Pakistan

Grade: A+

## 📜 CERTIFICATES

- Certified MERN Stack Development
- Certified Artificial Intelligence
- Certified Python Programming
- Certified Digital Freelancing

## 📁 PROJECTS

### Custom Application Development

- Designed and implemented software solutions for various institutions (e.g., hospitals, banks) using Python and integrating it with SQL for robust data management.

### Frontend Web & AI Application Development

- Developed dynamic web pages and applications using HTML and CSS. The focus was on frontend design and UI development, with the integration of AI tools to enhance user functionality.

## Database Design

- Designed and implemented database schemas and structures using MySQL for various applications.

## Electronics Circuit Prototyping

Designed and analyzed circuits on a PCB, specifically to evaluate the operational characteristics of diodes and the charging/discharging behavior of capacitors.

## FYP PROJECT

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### Health Vend: Your Fitness Partner

05/2024 – 06/2025  
Karachi, Pakistan

- Designed and developed an automated vending machine focused on promoting healthier nutrition through personalized recommendations.
- The system collects biometric inputs (height and weight) through a matrix keypad and calculates Body Mass Index (BMI) using an Arduino Mega 2560.
- It then classifies users into weight categories and dispenses suitable food items aligned with selected health goals (weight gain or loss).
- Stepper motors and ULN2003 drivers manage the dispensing mechanism, with visual output displayed on an LCD. Core system logic was implemented using **Python**, ensuring smooth data handling, decision logic, and hardware control.
- The project combines embedded hardware, real-time feedback, and programmable automation to support accessible wellness tools in public spaces, reflecting a practical solution aligned with preventive health and nutrition awareness.

## SKILLS

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### Technical Skills

- MERN Stack Development
- Python Programming
- Project Management using Microsoft Project
- Project Planning using StarUML
- CCN
- Circuit Design & Simulation (Multisim, Logisim, Proteus)

### Project Management Skills

- Project Planning/Tracking
- Project Management
- Documentation and Reporting
- Research Work
- Time Management

### Soft Skills

- Teamwork & Leadership
- Flexibility
- Research
- Presentation & Communication

## REFERENCES

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References available upon request