

Syed Muhammad Osama

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Skill Highlights

- React js
- Node js
- Express js
- JWT authentication
- PostgreSQL/MySQL
- MongoDB
- Linux
- Git
- Web apps
- Circuit design.
- PCB designing

Software Skills

- Visual Studio code
- Vim
- Arduino IDE
- Pycharm
- Proteus

Coding Languages

- Html
- CSS
- Javascript
- React js
- C++
- Python

Education

Bachelor of Electrical Engineering
International Islamic University, Islamabad
CGPA: 3.38

Career Objective: I am Syed Muhammad Osama who aims to be able to find an exciting and challenging position in the industry alongside a company who will continuously motivate and drive me to do my best and improve on my skills and abilities in order to be able to assist the company in achieving its mission and goals.

Experience

• 01/2023 (Currently working)

Pakcelarent

Full stack Engineer

Tasks:

- **Web app:** As a Full Stack Engineer at Pakcelarent. I played a pivotal role in developing and maintaining robust and scalable web application. I was responsible for both frontend and backend development, contributing to the entire software development lifecycle and ensuring seamless user experiences
- **Databases:** I have worked in postgresql or MySQL, MongoDB
- **Linux,Docker,Git**

• Internships:

- 1) **Zimco** (IoT , Power Systems , Augmented reality)
- 2) **Quantum Mechanics** (Fitting of the panels, Wiring of panels Connection of inverter, System of net metering)
- 3) **Zaka Solutions** (Marketing/sales of solar in US)

Projects

Final Year Project:

- IoT Based Smart Highway

We have developed smart highway project based on NodeMCU (ESP8266) and Arduino. It saves cost and energy using auto-controlled light through the internet and motion detector.

It also serves the purpose of an automatic watering system that automatically sprinkle water on the green belt near highways by detecting low moisture level.

It also saves labor costs using image processing speed detection.

Other Projects:

- Security door lock system using transistors and SPDT relay.
 - Three of seven buttons are correct on the panel when those three buttons will be pressed relay will switch and turn the motor on resulting in opening the door otherwise alarm will go on.
- Burglar Alarm using PIR sensor and transistor.
 - The motion sensor will be installed outside the home and if the motion sensor will sense the motion the buzzer will go on .
- Elevator controller using FPGA.
 - FPGA concepts were used. The controller will control the elevator. It shows the current floor, the requested floor, the moving direction of the elevator, and the weight on the elevator.
- Power switching using DPDT relay.
 - In this project, we have two power sources and if one source goes off then system will automatically shift to the second source.
- Sudoku Solver:
 - It will solve the full Sudoku block using functions of data structures.

Major Courses

- OOP
- Data structures
- Computer Networks
- Digital Logic Design
- Digital System Design
- Wireless Communication