

# MUHAMMAD USMAN GHANI

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I am a detail-oriented and self-motivated individual with the enthusiasm to work in software development, with experience in a wide variety of software development fields where I exercised my problem-solving skills. I have a keenness to learn new experiences and skills and to collaborate with professionals, and thus am looking forward to joining a dynamic association to improve and gain proficiency with the abilities not only in software development but in personality development as well.

## EXPERIENCE

**11/2021 – NOW**

### **SOFTWARE ENGINEER, BABYPLANET.PK**

This is my current employment. I am mainly involved in development and maintenance of our CMS system as well as its complementary APIs (automated payment and order system, automated report generation, etc.).

#### **Technologies used:**

- Next JS
- React
- SQL Server
- Flask

### **ERP SYSTEM IN NEXTJS,**

In this project I am working on transforming and optimizing previous running project for better stability and performance.

- Used Next.js, a React framework, to create the frontend of the system that interacts with the users and displays the data and it is also used for APIs.
- Used Prisma, an ORM tool, to connect to the SQL Server database and perform CRUD operations on the data
- Used APIs to communicate between the frontend and the backend of the system and to integrate with external systems such as integration with different couriers and Magento

### **ERP SYSTEM IN FLASK,**

Developed a web based POS system that automates and optimizes the various processes of a company.

- Used Flask, a micro web framework, to create the backend of the system that handles the business logic and data processing
- Used pyodbc, a Python module, to connect to the SQL Server database and execute SQL queries and commands
- Integrated various external services and systems such as courier APIs, email services, WhatsApp Notification with APIs, and reports.
- Performed main operations such as order management, inventory control, shipping, invoicing, and reporting

5/2020 – 7/2020

### **INTERNSHIP, TRANSFO-POWER**

I was involved in development and maintenance of web services and I provided IT support as well.

#### **Technologies used:**

- Flask

## **SKILLS**

- Languages
  - **Expert:** JavaScript, Python
  - **Intermediate:** C, C++, PHP
- Technologies
  - **Expert:** NextJs, Flask, SQL Server, MySQL, Linux (CLI)
  - **Intermediate:** ReactJs, MongoDB

## **PROJECTS**

### **IoT BASED SMART FARMING, FYP**

In this IoT based project we measure soil characteristics (moisture, humidity, temperature) using Arduino and C language. Using master-slave approach we get the readings and send the data via Wi-Fi to the database and visualized it through web interface using PHP, CSS, HTML and Java Script.

### **TRAFFIC MANAGEMENT SYSTEM, SEMESTER PROJECT**

This is my semester project which is based on a traffic control system and I worked on XILINX using VHDL.

### **DENSITY BASED TRAFFIC CONTROL, SEMESTER PROJECT**

In this project, I made a traffic light control system using IR sensors and 8051 microcontroller. It manages the time based on traffic density with respect to each route. Its code is written in c (assembly).

### **HOSPITAL COMMUNICATION SYSTEM, SEMESTER PROJECT**

In this project we designed a communication network using different servers, routers and also using different networking protocols

## EDUCATION

**JUNE 2021**

**COMPUTER ENGINEERING**, THE UNIVERSITY OF LAHORE

CGPA: 3.39/4.0

Major Courses:

- Data Structures and Algorithms, Database Management System
- OOP, Operating Systems
- Computer Communication Networks
- Embedded Systems
- Digital Signal Processing

**MAY 2016**

**PRE-ENGINEERING (F.Sc.)**, ABDUL RAZZAQ FAZAIA COLLEGE MIANWALI

GRADE: B

**MAY 2014**

**SSC (SCIENCE)**, ABDUL RAZZAQ FAZAIA COLLEGE MIANWALI

GRADE: A

## HONORS AND AWARDS

- Successfully completed 30 Days coding challenge (Python) on HackerRank
- IEEE coding competition at NAMAL Institute, Mianwali