

Shafaq Zehra

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Career Objective

To achieve a tremendous position in a professional organization, where I can enhance my tactics to kick start my skills and strengths in line with the stated mission and goal of the company through hard work and commitment at all levels.

Academic Profile

2020-2024

Bachelor of Computer Science **Cgpa 3.5/4.0**

Forman Christian College and Chartered University, Lahore

2018-2020

A-Level **75%**

Beaconhouse Defence Campus, Lahore

2016-2018

O-Level **81%**

Army Public School for International Studies, Lahore

Expertise

October 2020 –to date **Python Developer, Web Developer** **as a Freelancer**

October 2023 **Website Developer** **as Volunteer in IEEE x WIE**

Description: I am working here as a Python Developer and Website Developer. Following are my major projects so far:

1. Build Python scripts to parse the XML files and load the data into the database (SQL and MongoDB)

2. Expertly using different Python packages like Numpy, Scipy, Tensorflow, Keras, PyTorch, Scikit-learn, and Pytables.
3. Expertise in developing customer-satisfied frontend web interfaces using the latest technologies **HTML5, CSS3, Javascript, jQuery, and Bootstrap 5.**
4. Hands-on expertise in Backend web development technologies such as **REST APIs, Javascript framework, Django framework.**
5. Hands-on experience in the deployment of Web applications **Heroku and MongoDB Atlas.**
6. Used GitHub for software versioning and change management.
7. Possess basic knowledge of Software Quality Assurance (SQA) and a fair understanding of agile methodology, contributing to a comprehensive approach to software development.
8. Collaborated effectively in team environments, leveraging strong communication and interpersonal skills to achieve project goals.
9. Demonstrated adaptability and the ability to work within agile methodologies, fostering a collaborative and dynamic team environment.
10. Familiar with Docker , kubernetes, CI/CD systems, including Jenkins, and experienced in implementing build systems to enhance development workflows.

<h2>Academic Projects</h2>

SEMESTER PROJECTS:

1) Hospital Management System:

Major Role: developer

Platform : Python,GUI-TKinter,Mongo DB, OOP, GIT, Structural Design Patterns

Description:

responsible for handling healthcare information by putting it in a MongoDB database. A database contains all of the essential patient, staff members and doctor-related documents. This system's algorithm is made efficient by leveraging OOP and structural design patterns.

2) VISITOR MANAGEMENT SYSTEM

Major Role: developer

Platform : Python ,GUI-TKinter, MySQL Database, OOP, GIT, Structural Design Patterns

Description:

Responsible for recording visitor activities and providing them with assistance through an App. The interface of this software is made using Tkinter which will provide the connection between visitors and staff. The visitor information is stored in a database using MySQL, the backend was made effective using OOP and structural Design patterns. For Project software versioning I have used GitHub.

3) **Online Hospital Management Systems**

Major Role: developer

Platform : Python, GUI-TKinter, MySQL database, OOP, GIT, Structural Design Patterns
Description:

Responsible for providing facilities to users at the ease of their home by providing them with interface made with GUI-Tkinter. Database is widely used in this project, all of the data is stored in a database through MySQL database.

4) **Sensor-Based Vehicular Assistance and Monitoring System (Final Year Project)**

Major Role: Developer

Platform: Arduino, Python, Bootstrap 5, Next.js, RestAPIs, SQLite database, GIT, Django, CI/CD, AWS

Description:

This cutting-edge innovation redefines the way oil haulier companies approach vehicle monitoring and safety, providing a comprehensive solution that safeguards lives, optimizes operations, and sets new industry standards.

Other Projects

- **Online Hospital Management Portal**

Major Role: Developer

Platform: Python, Bootstrap 5, Javascript, React, SQLite database, GIT, Django

Description:

Responsible for providing facilities to users at the ease of their homes. Database is widely used in this project; all of the data is stored in a database through SQLite.

- **Women In Engineering Website (IEEE) - Working**

Major Role: Developer

Platform: WordPress Description:

This is the official Website of WIE Pakistan, Providing the details of the upcoming events and the past events of this Project.

- **DNA Classification for finding E.coli (Machine learning Project)**

Major Role: Developer

Platform: Python, matplotlib , seaborn, numpy, pandas , scikit learn (One Hot Encoding) , pickle, MLPclassifier , Django

Description:

This Project is responsible for classifying the DNA sample to predict wheather a person is E-coli Positive or Negative.

- **Keyword Extraction From Text using NLP**

Major Role: Developer

Platform: Python , Django, Natural language toolkit, numpy, pandas

Description: The project focuses on leveraging Natural Language Processing (NLP) techniques to develop a robust keyword extraction system. As a developer, the primary responsibility is to create algorithms that can automatically identify and extract essential keywords from text data.The project aims to optimize the platform's functionality by providing a more efficient and streamlined approach to handling textual data.

SKILLS

Programming Languages: Python, C++(learning),MongoDB(learning),SQL Server

Web Development: JavaScript, HTML, CSS, PHP, Django(learning).

Machine learning: Scikit learn, Keras, Tensor Flow, ANN, CNN, RNN

Online Courses

- Mastering Python Skills (packt Publishers)
- Web Development (Udemy)
- Mastering JAVA Programming (Udemy)
- Software Testing Bootcamp (Udemy)
- Data science and Machine learning (Theory + projects)
- 100 days of code : Real-world data science projects

Extra-Curricular Activities

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| <ul style="list-style-type: none">● Director Operations in Forman Urdu Society● Head of Photography in Forman Google Developer Students Club (GDSC)● Head of Publications in Forman ACM Society● WebMaster in Forman IEEE society |
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Languages

- Urdu
- English

References

Will be furnished upon request.