



# Sarah Pirzada

Computer Scientist

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in <https://www.linkedin.com/in/sarah-pirzada/> 🇺🇸 American

## 📄 PROFILE

Passionate Computer Science graduate with a strong foundation in AI, machine learning, and data science. Eager to apply my theoretical knowledge and practical skills to real-world projects, contributing to innovative solutions and furthering my expertise in cutting-edge technologies.

## 🎓 EDUCATION

- 08/2019 – 06/2023 **Bachelors Degree in Computer Science**  
Sir Syed CASE Institute of Technology, Islamabad
- 08/2017 – 06/2019 **A-Levels**  
University of Cambridge, London

## 🏆 CERTIFICATES

- 11/2022 – present **Data Science Certificate**  
Data Institute of Pakistan  
In my Data Science Certificate program I gained expertise in:
- Software Programming 101; SQL, R
  - Mathematics for Machine Learning
  - Statistics for Machine Learning
  - Bayesian Statistics for Machine Learning
  - Natural Language Processing
  - Database: Advance SQL, Accessing data with Python, Data Statistic & Mining, NoSQL
  - Data Science – Advance
  - Learned Docker for containerization to efficiently package and deploy data science projects
  - Proficient in analyzing complex data, deriving insights, and deploying data science solutions effectively
  - Data Visualization and Analysis – Storytelling With Data
  - Business Strategy
- 05/2022 – 06/2022 **Blockchain Basics**  
The State University of New York (Coursera)  
In my Blockchain Basics Certificate program, I acquired knowledge in:
- Blockchain fundamentals, including cryptographic techniques, consensus mechanisms, and decentralized networks
  - Implementation of smart contracts on platforms like Ethereum
  - Understanding of blockchain platforms, integration techniques, governance and regulations, and emerging trends
  - Exploration of the decentralized nature of blockchain networks and the consensus mechanisms that enable trust and consensus among participants

## 💼 PROFESSIONAL EXPERIENCE

- 05/2021 – 01/2022 **Lmaniya Corp**  
New Jersey, United States  
Mobile app developer
- Worked as a Mobile App Developer, specializing in the Flutter framework
  - Developed and deployed feature-rich mobile applications using my expertise in the Flutter framework
  - Integrated Firebase services to enhance backend functionality, ensuring seamless data synchronization and real-time updates
  - Leveraged Firebase Cloud Firestore and Firebase Authentication to provide secure and efficient data storage and user authentication
  - Utilized web scraping skills with Python and BeautifulSoup to extract and manipulate data from various sources, such as websites and APIs
  - Employed the Flutter web scraping library to seamlessly integrate web-collected data into mobile applications

10/2022 – 12/2022  
Islamabad, Pakistan

- Enabled valuable insights and efficient data management within the applications through effective web scraping techniques

#### **National Engineering and Scientific Commission (NESCOM)**

Research Assistant

- As a Research Assistant, collaborated on web optimization strategies using Python programming
- Developed efficient scripts and tools utilizing Python's Flask, requests library for improved web performance
- Optimized code, applied minification, compression, and CDN integration to enhance loading times
- Contributed to comprehensive documentation
- Gained insights into web optimization techniques and used tools like Google PageSpeed Insights

## PROJECTS

### **Banking System Project**

Developed a comprehensive banking system using object-oriented programming (OOP) concepts in C++ with a graphical user interface (GUI).

### **Music App (Casify)**

Developed a professional-grade music application using C# as a desktop application. The application allowed users to download songs from the web through web scraping techniques and provided offline playback functionality.

### **KoupUp**

Developed the KoupUp Android Application using Flutter and integrated it with Firebase. The application aimed to assist users in discovering and uploading product coupons specifically for Amazon products.

<https://play.google.com/store/apps/details?id=com.lmaniya.koupup&pli=1>

### **LMS**

Developed a comprehensive Learning Management System (LMS) Android application using Flutter and Firebase. The application served as a powerful tool for teachers, enabling them to generate exams easily and efficiently.

### **Uqarar (FYP)**

Developed a mobile application that leveraged machine learning (ML) and deep learning (DL) techniques, including a genetic algorithm and an emotion recognition model, to create a personalized study and degree plan for students based on their academic record and mental health.

## SKILLS

- |                     |                          |                    |
|---------------------|--------------------------|--------------------|
| • C++               | • C#                     | • Python           |
| • R                 | • Dart                   | • Firebase         |
| • SQL               | • Docker                 | • Machine Learning |
| • Deep Learning     | • Computer Vision        | • Figma            |
| • Adobe Illustrator | • Microsoft Office Suite |                    |

## PORTFOLIO

### **Member IEEE, SS CASE IT Chapter, Islamabad**

Demonstrated strong leadership and organizational skills while overseeing and coordinating successful events. Made significant contributions to fostering technical excellence and professional growth within the society.

### **Teacher Assistant**

My responsibilities included grading exam papers and quizzes, entering marks and attendance in the online portal. Played a crucial role in supporting the teacher by ensuring accurate record keeping and providing timely feedback to students.

## REFERENCES

**Dr. Jawad Hussain**, Associate Professor & Chairperson, Sir Syed CASE Institute of Technology  
[Jawad.hussain@case.edu.pk](mailto:Jawad.hussain@case.edu.pk)

**Mr. Waqas Ahmed**, Senior Lecturer, Sir Syed CASE Institute of Technology  
[waqasahmed@case.edu.pk](mailto:waqasahmed@case.edu.pk)