

# Umer Bahadur

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## Introduction

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**Third-year** Computer Science student with hands-on experience in both desktop and mobile application development. Currently, I am enhancing my expertise through a specialized **Cloud Data Engineering course at Saylani**. My technical skill set includes proficiency in multiple programming languages and tools, coupled with a strong foundation in computer science concepts. Seeking an internship opportunity where I can apply my knowledge and skills in data engineering and software development, while gaining practical experience and contributing to impactful projects.

## WORK EXPERIENCE

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**Bytewise Fellowship** *Data Engineer, Remote, Pak/Germ*

**08/06/2024 - Present**

- Work on Hands-on Projects with professionals' guidance

**Codsoft** *Python Developer, Remote, IND*

**01/05/2024 - 31/05/24**

- Work on different projects and tasks.
- Time Management Skills.

## PROJECT EXPERIENCE

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**ETL With Python** ([link](#))

- Real time Data pipeline.
- **ETL pipeline development:** Extracted data from websites with BeautifulSoup, transformed it with Pandas, and loaded it into CSV and SQLite.
- **Web scraping:** Scraped and parsed HTML tables using BeautifulSoup for accurate data extraction.
- **Data transformation:** Converted market capitalizations into multiple currencies using Pandas.
- **Database integration:** Loaded data into SQLite and executed SQL queries for data analysis.

**Vehicle Management System** ([link](#))

- **Car rental and purchase system:** Developed a console-based application for renting and buying cars using C++ with a time complexity of  $O(n)$ , where  $n$  is the number of cars available.
- **User interaction:** Implemented structured customer input and information storage using file handling, ensuring a seamless user experience.
- **Price listing:** Created dynamic price tables for SUVs, sedans, and sports cars, supporting different rental durations, with a time complexity of  $O(1)$  for price retrieval.
- **Billing and file creation:** Automated total bill calculation and saved customer details and transactions to a text file with  $O(1)$  time complexity for each transaction.

**Digital Dictionary** ([link](#))

- **Dictionary Application:** Implemented a console-based dictionary using binary search trees to store and manage words and their meanings.
- **User Interaction:** Provided menu-driven user interface for inserting, searching, updating, and deleting words.
- **File Handling:** Enabled persistent storage of dictionary entries using file handling techniques.
- **Efficiency:** Leveraged binary search tree operations for efficient data management.

**Covid Management System** ([link](#))

- **Project Details:** System Development: Created a comprehensive system for organizing vaccination appointments and dose tracking.
- **User Interface:** Designed intuitive interfaces for patients and administrators, facilitating easy registration and appointment

scheduling.

- **Database Management:** Implemented a robust database structure using MS Access and Java for efficient data storage.
- **Communication Enhancement:** Enabled seamless data sharing among healthcare providers and government entities for effective vaccine distribution.

## RELEVANT SPECIALIZED SKILLS/ SOFTWARES/ COURSES

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- **Programming Languages:** Python, Java, C++, C#, Dart
- **Frameworks and Tools:** Flutter, NumPy, Pandas
- **Web Technologies:** HTML, CSS, JavaScript
- **Core Competencies:** Object-Oriented Programming (OOP), Data Structures and Algorithms (DSA), Design and Analysis of Algorithms (DAA)
- **Data Engineering:** Experience with data manipulation and analysis using Python libraries such as NumPy and Pandas, AWS
- **Databases:** Proficient in SQL for database management and querying
- **Scripting and Version Control:** Bash scripting and Git for version control

## EDUCATION

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- **Bahria University**, Bahria school of Engineering & Applied Sciences, Karachi, SD  
Bachelors in Computer Science [5<sup>th</sup> Semester] **2022-Present**
- **Bahria College** **2019/2022**

## HONORS / AWARDS & CERTIFICATIONS

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- Snowflake Badge-1 [Hands On Essentials Data Warehousing](#)
- Certified in [Meta Backend Development](#)
- Certified in MS Office