

JAWERIA ANWER

Computer Information Systems Student

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Summary

Motivated Computer Information and Systems Engineering undergraduate with a strong passion for problem-solving and applying technology to create impactful solutions. Skilled in software development, data analysis, and cloud computing, with proficiency in Python, Java, Flask, React, and Power BI. Detail-oriented team player with strong communication skills, eager to contribute to innovative projects and gain hands-on experience through an internship opportunity.

Experience

National Centre of Big Data & Cloud Computing

Karachi, Pakistan

Full Stack Intern

08/2024 - 10/2024

An organization focusing on big data and cloud computing solutions.

- Gained hands-on experience in developing interactive web applications using **Streamlit** for data visualization and rapid prototyping.
- Acquired knowledge of integrating and working with **Hugging Face** datasets and **API keys** for natural language processing tasks.
- Enhanced programming skills in **Java**, focusing on developing efficient and scalable applications.
- Optimized workflows by leveraging advanced **debugging** techniques and efficient coding practices.

United Energy Pakistan

Karachi, Pakistan

Data Analyst Intern

07/2025 - 09/2025

A leading oil and gas exploration and production company in Pakistan.

- Developed interactive dashboards in **Power BI** to visualize operational and financial data.
- Utilized **Excel (including PivotTables)** for data cleaning, analysis, and reporting.
- Applied **Python** for predictive modeling and **forecasting oil & gas consumption trends**.
- **Automated** data retrieval and streamlined reporting processes to support business decisions.

Education

NED University of Engineering and Technology

08/2022 - 08/2026

Bachelor of Computer & Information System Engineering | GPA: **3.55** / 4.0

Saint Lawrence College

06/2020 - 05/2022

Intermediate

Strengths

Strong Command in Python

My proficiency in Python allows me to solve complex problems, automate tasks, and develop efficient solutions.

Decision-Making and Time Management

I analyze data to make plans and execute them fit within deadlines.

Proficiency with Databases

My ability to work with databases includes designing schemas, querying data, and managing databases.

Continuous Learning and Growth Mindset

My eagerness to apply my knowledge to real-world challenges reflects a commitment to continuous growth.

Skills

C · Java · Python · React · DNN · Flask · Web Development(HTML,CSS,JS) · MATLAB · PHP · MySQL · Postman(API Testing) · Streamlit · TensorFlow · PowerBI · Excel

Projects

Geospatial Intelligence Application

Used Google Earth Engine satellite imagery for geospatial analysis and visualization, integrated with Hugging Face and a Streamlit front-end. Enables interactive exploration of geospatial data with features like graphs, clusters, and highlights. Includes interactive maps, timelapses, heat-map, split-map, global-surface map and many more maps.

Programming Language Trends And Predictions

Analyzed a Kaggle dataset to evaluate year-wise trends in programming language usage, using machine learning models to forecast future trends. Created visualizations like graphs and pie charts to effectively present data and applied predictive algorithms to identify emerging and stable languages. Provided actionable insights for developers and industry stakeholders to adapt to evolving trends.

University Network Design Project

Designed and implemented a scalable and efficient network infrastructure for a university with two campuses-Main and Branch- ensuring secure resource sharing, robust connectivity, and streamlined interdepartmental communication. The network architecture adhered to industry best practices, incorporating VLAN segmentation, IP subnetting, and routing protocols to support scalability and performance. Cisco documentation and real-world university and corporate network models served as key references throughout the design process.

Fitsync Website

Developed a fitness tracking app with a React frontend for logging meals, tracking calories, and inputting exercise preferences. Built backend logic to compare calories burned with intake, helping users track fitness progress. Integrated goal tracking, exercise suggestions, and used MySQL for secure data storage and retrieval.

Object Detection System

Developed a web application using Flask and TensorFlow to recognize American Sign Language (ASL) gestures through Convolutional Neural Networks (CNNs). Users can upload hand gesture images, which are processed and classified by a deep learning model. The app helps bridge communication gaps for individuals with hearing or speech impairments, offering an accessible tool for real-time ASL recognition.

Environmental Monitoring System

Developed a system to monitor and analyze weather conditions, including temperature, humidity, wind speed, and precipitation, across multiple regions using robust weather APIs. Designed an intuitive frontend for seamless global weather search and integrated an automated email notification system to alert users about temperature anomalies, ensuring reliability and user convenience.

Online Banking System

Created an application to manage savings and current accounts, offering features like overdraft options for current accounts. Integrated secure, real-time transaction processing with PHP, ensuring smooth balance updates and error-free operations. Designed a user-friendly frontend to enhance navigation and maintained secure user authentication for reliable data integrity and trust.

Sales Performance Dashboard

Designed and developed an interactive Power BI desktop dashboard to analyze key sales metrics. Cleaned and transformed raw data using Microsoft Excel, and created calculated columns and DAX measures for insightful reporting. Integrated dynamic visuals, filters, KPIs, and drill-through features using Power BI Desktop, Excel, and DAX for effective data-driven decision-making.

Optimized data models for performance and clarity, ensuring accurate and responsive analytics. Demonstrated strong skills in data manipulation, visualization, and business intelligence practices.

Certifications

Certified Data Scientist — NED University of Engineering and Technology

Intro To Programming — Kaggle