UMESH KUMAR

Tampa | FL 33617 | Phone: 813-648-1628 | kumar44@usf.edu | GitHub | LinkedIn

EDUCATION

University of South Florida (USF) **Tampa, FL**
B.S in Computer Science May 2026

- GPA: 3.31/4.00
- Recipient of USF's Green and Gold Directors' Award
- Member of USF Dean's list

Relevant Coursework: Data Structures, Analysis of Algorithms, Program Design, Discrete Structures, Linear Systems, Probability & Statistics, Programming Concepts

TECHNICAL SKILLS

Programming: Python, SQL, C, C++, HTML/CSS
Tools/Libraries: Jupyter Notebook, MySQL, Pandas, NumPy, Matplotlib, seaborn, IBM Cognos, Excel
Concepts: Data Wrangling, EDA, Data Cleaning, Visualization, Statistical Analysis, SQL Joins & Aggregations, Dashboarding

CERTIFICATIONS – IBM DATA ANALYST PROFESSIONAL CERTIFICATE

COURSERA LEARNING (In Progress, 2025)

- Gained hands-on experience with data wrangling and cleaning using **Pandas** DataFrame
- Visualized data with **matplotlib** and **seaborn** to reveal insights and trends
- Performed **SQL** operations including nested queries, GROUP BY, ORDER BY, and joins using **MySQL**
- Connected **Python** to databases using **DB API** for executing queries
- Built interactive dashboards in **IBM Cognos Analytics** to track KPIs and visualize metrics

PROJECT EXPERIENCE

Python Practice Projects – https://github.com/umeshkumar8114/python-practice-projects (Refer to GitHub) Developed and maintained a structure collection of **10+ python** scripts showcasing:

- **Object-Oriented Programming** (OOP) with custom classes, **modular design**, and encapsulated logic
- **File processing**, **string manipulation**, and basic encryption
- **Command-line simulations** and games with user input handling, probability-based decision making and dynamic **output formatting**

C Programming Projects – https://github.com/umeshkumar8114/c-coding-playground (Refer to GitHub)

- **File handling** and structured data parsing using **structs** and formatted string handling
- **Dynamic memory allocation**, **pointer arithmetic**, and array operations
- **Algorithm implementations** such as the Sieve of Eratosthenes and Pythagorean triple finder

Graph-based Dijkstra's algorithm Implementation - Programmer

- Implemented **Dijkstra's algorithm** (shortest path finding solution) in **C++**, utilizing **data structures graphs**, adjacency lists, and **priority queues**.
- Applied algorithmic **problem-solving** and memory-efficient logic to optimize pathfinding for weighted graphs

WORK EXPERIENCE/LEADERSHIP

USF Student Government **Tampa, FL**
Student Senator May 2022 - May 2023

- Oversaw allocation of $200K+ in student organization budgets.
- Served on ethics committee to maintain governance standards.
- Gained experience in high-level decision-making and collaboration.