


# Usama Rafiq

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## SUMMARY

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Sophomore Computer Science student at Sir Syed University, with a **Current GPA 3.16/4**, eager to secure a Software Development Internship. Looking to leverage strong programming skills and a passion for innovation to contribute effectively to dynamic projects within a collaborative team environment.

## EDUCATION

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### Sir Syed University Of Engineering & Technology

*Bachelors in Computer Science*

Karachi, PK

*Oct 2022 – 2026*

**Relevant coursework:** Data Structures & Algorithms, Object Oriented Programming, Database Systems, Computer Architecture & Assembly Language, Theory Of Computation.

## TECHNICAL SKILLS

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**Languages:** C/C++, C#, Python, JavaScript, TypeScript, SQL, Bash

**Technologies:** Qt, Flask, Django, Node.js, React.js, MySQL

**Tools:** Git, Docker, NeoVIM, VScode

## PROJECTS

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### MovieDB | *Javascript, React, Python, SQL* | [GitHub](#)

- **Developed a user-friendly movie database web-app For Database Systems class.** letting users easily explore and search for movies, TV shows, and entertainment industry figures using the TMDB API.
- **Integrated a comprehensive IMDb dataset (over 400,000 movies) into an SQLite database** to facilitate efficient data management and query operations, leveraging Python for backend processing.

### Image Filter | *C, Makefile* | [GitHub](#)

- **command-line image filter tool in C** that applies various effects to BMP files, utilizing `getopt` for argument parsing.
- **Implemented efficient memory management** and error handling, ensuring robust processing of image data and compatibility with 24-bit uncompressed BMP format.

### Pharmacy Management System | *Python, TkinterUI, SQLite* | [GitHub](#)

- A Pharmacy Management System using Python and Tkinter, featuring a graphical user interface (GUI) for managing pharmacy operations, including adding, updating, and deleting records, with data stored in an SQLite database.

### Bash Automation Scripts | *Bash, Linux* | [GitHub](#)

- **Created scripts for everyday Linux tasks**, making daily operations smoother and more efficient. This included a script that automatically backs up important folders to **Google Drive** and another that simplifies the management of users and groups on Linux systems.

## VOLUNTEER EXPERIENCE

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### SMEC 2024

*Web Development Team Volunteer*

*Nov 2023 – Jan 2024*

- Oversaw technical setup and maintenance during the competition, ensuring systems were current and functioning correctly. Assisted participants with technical issues, contributing to a smooth and successful event.

### Tutor - Computer Science Department

*Oct 2023 – June 2024*

- Contributed significantly to the academic success of peers.
- Assisted students with coding challenges, debugging and code design.