

ABOUT ME

Recent computer science graduate with hands-on experience in software development using Python and a basic understanding of JavaScript. Proven ability to develop applications in various domains, including data analysis, machine learning, and web development. Strong work ethic and commitment to staying up-to-date with the latest advancements in the field.

CONTACT

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<https://github.com/HasnainAsim>

EDUCATION

**University of Central Punjab
2022**

*Bachelors of Computer
Science*

Acquired a strong foundation in computer programming, algorithms, data structures, and software development, object-oriented programming, database systems, operating systems, computer networks, and web and mobile applications, data analysis, and machine learning.

SKILLS

Problem Solving, Communication, Fast Learner, Time Management, Creative, Adaptability, Teamwork, Attention to Detail

PROGRAMMING LANGUAGES

Python, C++, JavaScript, HTML, Java, MySQL, SQL, CSS, Git

HASNAIN ASIM

ASSOCIATE SOFTWARE ENGINEER

OBJECTIVE

Seeking an Associate Software Engineer role in a reputable organization where I can utilize my passion for web development and expertise in creating user-friendly, responsive, and high-performance web applications. My goal is to be a valuable asset to the team and contribute to the delivery of innovative and effective solutions

PERSONAL PROJECTS

A SMART FIRE, SMOKE AND SHOOTER THREAT DETECTION

- Developed a desktop-based application for smart fire, smoke, and shooter threat detection using Python and openCV.
- Trained a machine learning model to achieve an accuracy of detection of 90%.
- Cleaned and processed the dataset from scratch and performed data augmentation.
- Implemented various machine learning algorithms to train the model.

INTERNET SONG DATABASE

- Developed the complete back-end and front-end of an android application for an Internet Song Database using Java and Firebase.
- Implemented features such as displaying the top 100 songs, artists, and the ability to add songs to favorites.
- Designed the graphical user interface of the application, providing an intuitive and user-friendly experience.
- Incorporated login and sign up functionality using Firebase, ensuring secure access to the application.

COCA COLA PRODUCTION LINE INSPECTOR

- Developed a program using computer vision techniques to inspect coca cola bottles and identify any abnormalities on the production line.
- Implemented image processing techniques such as image equalization, normalization, and image morphology using python to pre-process the images and extract meaningful information.
- Applied techniques such as thresholding, erosion, dilation, contour detection, and template matching to detect faults such as missing bottle caps, bottle deformations, misprinted labels, missing labels, and straightness of the label.

