Mahaz Khan

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Spoken languages: English (Fluent), Urdu (Native), Arabic (Intermediate)

EDUCATION

The University Of Sharjah | University City, Sharjah

B.S. in Computer Science   **Aug 2026**

Relevant Courses: Data Structures, Programming 1 and 2 (C++), Database (SQL), Web Programming (HTML, CSS, JavaScript), Software Engineering, Operating Systems, Intro to AI (Python), OOP with Java.

TECHNICAL SKILLS

Programming Languages: Python (Advanced), C++ (Advanced), Java (Intermediate), HTML (Advanced), CSS (Advanced), JavaScript (Advanced), Flutter Dart(intermediate), JavaFX(intermediate)

Operating Systems: Windows, Linux

Frameworks & Libraries: Regression , CNN, Random Forest.

Databases: SQL

Tools: GitHub, windows, VS Code, MySQL Workbench, Anaconda

Specializations: web programming(front-end-Development), Machine Learning, Web Development, Software Engineering, App building, Software Testing

TECH DEVELOPMENT PROJECTS

Decentralized Property Transaction Platform | Software Engineering Project
- Built a secure, transparent property transaction system using blockchain technology and smart contracts.
- Developed both backend (Go/Golang) and frontend mobile application interfaces to enable real-time property listing, ownership validation, and loan management.
- Integrated features such as QR-based property verification, role-based access, and fraud detection to ensure trust and government compliance.

Stroke Prediction Using Machine Learning | Junior Project (In Progress)
- Currently developing a stroke risk prediction system using machine learning models.
- Working on integrating Logistic Regression and LIME explainability with Python and API connectivity.
- Aiming to provide accurate predictions for healthcare applications in the UAE.
- Pioneering the use of AI to uncover hidden stroke triggers unique to young adults in the region.

Nike Shoe Store – **E-commerce Website | Web Programming Project**
- Built a responsive e-commerce website for "Shoes," a Nike-focused store, using HTML, CSS, and JavaScript.
- Implemented key features including product filtering, "Add to Cart" functionality, customer reviews, and dynamic search.
- Designed dedicated pages for home, products, about, reviews, and services to ensure smooth user navigation and shopping experience.
- Integrated user account demo, shopping cart system, and mobile-first responsive layout for cross-device compatibility.

Image Classification with CNN, XGBoost, and Random Forest (CIFAR-10 Dataset)

- Developed and tested image classification models using the CIFAR-10 dataset consisting of 60,000 images across 10 categories.

- Evaluated and compared the performance of XGBoost, CNN, and Random Forest algorithms for visual data classification.

- Explored key factors affecting model performance such as feature extraction and model tuning. Demonstrated strong accuracy and efficiency by applying practical ML techniques on a benchmark dataset

Hotel Booking System – **Relational Database Design & Implementation**

MySQL | SQL Scripting | ER Modeling

- Developed a fully functional relational database system for an online hotel booking platform supporting multi-company operations.
- Designed an ER diagram and translated it into a normalized relational schema using MySQL Workbench. Populated the database with 20+ sample records and enforced data integrity using primary keys, foreign keys, and unique constraints.
- Wrote and executed advanced SQL queries to analyze hotel performance, booking trends, and company operations across locations.

Green Market Sustainability Platform

Role: Developer/Project Collaborator

Technologies: Web Development, Sustainability Practices, Platform Design

- Designed and developed a web platform to reduce food waste by enabling food donation and optimizing resource usage across businesses and individuals.
- Developed key features such as user registration, donation logistics, and educational content on sustainable practices and food waste conversion.
- Collaborated on partnerships with stakeholders and integrated strategies for government incentives and alternative solutions like soil amendments and biofuel production.

COMPETITIVE PROGRAMMING EXPERIENCE

- University of Sharjah Competitive Programming Team (Active Member)
- Applied concepts in data structures, algorithms, and computational thinking to solve complex coding tasks.
- . Participated in Cosmoverse 2024 Hackathon (Hackman) in Dubai, a global blockchain-focused event.
  - Collaborated with developers to tackle interchain challenges.
  - Enhanced skills in blockchain technology and problem-solving through hands-on innovation.

CERTIFICATIONS

- Using Generative AI to Derive Insights from Data – IBM Skills Build
- Email Etiquette – Institute of Leadership in Higher Education - (University of Sharjah)

SOFT SKILLS

- Leadership
- Project Management
- Problem-Solving
- Communication
- Team Collaboration
- Time Management
- Critical Thinking