SYEDA ALIZA ALI

Software Engineer

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SUMMARY

I am a passionate Computer Science student with experience in multiple programming languages and hands-on involvement in various projects across different courses. I enjoy solving problems, adapting to new technologies, and contributing to innovative solutions in collaborative environments.

EXPERIENCE

Django Developer
Sprectex AI

02/2023 03/2024 Karachi

I learned Django from scratch, gaining a solid understanding of its structure and the MVT (Model-View-Template) pattern. I worked on hands-on projects, exploring Django's framework, handling databases, creating views, and managing templates. This experience helped me understand how Django applications are built and structured, enhancing my skills in backend development.

Frontend Developer
Let's Growmore

09/2023 10/2023 India

During my internship, I worked on building static web pages using HTML, CSS,JavaScript and Bootstrap. I also gained basic knowledge of React, exploring its components and state management. This experience helped me understand frontend development principles, responsive design, and how to create visually appealing user interfaces.

Education

Bachelor of Science in Computer Science
Iqra University Airport Campus

09/2021 06/2025 Karachi, Airport

Higher Secondary Education

09/2018 06/2020 Karachi

Languages

English
Proficient

Urdu
Native

CERTIFICATION

Attending Workshop Certification
Participation Certificate for attending workshop on Data Science, ML and Metaverse at Iqra University Airport Campus.

Appreciation Certificate
Outstanding Contribution As a Volunteer organized by NextGen Gaming And Robotics Society at Iqra University Airport Campus.

Certificate Of Achievement
for completing internship as a django developer at Sprectex AI.

Certificate Of Achievement
for completing internship as a frontend developer at Let's Growmore.

SKILLS

HTML CSS Bootstrap Javascript
React.js Database Java Core OOP
Data Structures & Algorithms (DSA)
SQL Server (SSMS) C language Django
MySQL (phpMyAdmin, XAMPP) Python
Artificial Intelligence Machine Learning
Problem Solving Adaptability Quick Learner

PROJECTS

Academic Projects
Some showcases in academic life.

- **Programming Fundamentals**
  Developed an **Cosmetic Store Management System** using **C** in Dev C .
- **Object-Oriented Programming (OOP)**
  Cosmetic Management system using Java Core in NetBeans.
- **Data Structures and Algorithms**
  Developed an **Office Management System** with CRUD operations using Java in NetBeans.
- **Digital Logic Design (DLD) & Physics**
  Designed a Home Automation System using Arduino (hardware-based project).
- **Design and Analysis of Algorithms**
  Implemented **Greedy and Best Search Algorithms** in Python with a Tkinter-based UI.
- **Operating Systems**
  Demonstrated **Thread Synchronization Techniques** using Mutex, Semaphore, and Monitor Condition Variables) in C.
- **Information Security**
  Performed an SQL Injection attack on a website portal for security testing.
- **Compiler Construction**
  Developed a **First and Follow Set Generator** using Python.
- **Software Project Management**
  Created a project report with UI for **SmartMed Appointment App** using Creatie.ai.
- **Machine Learning**
  Developed a **Heart Stroke Prediction Model** using **Random Forest Classifier**.Utilized libraries: Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn.
- **Web Programming Languages**
  Developed an **FastBite Application** using .NET MVC.
- **Embedded Systems**
  Designed a **Smart Parking System** using Tinkercad.
- **Final Year Project (FYP)**
  Built a Smart Automated Classroom Attendance System **using ML, Deep Learning ResNet152V2, and Django**.Technologies used**: Python, OpenCV, TensorFlow, Bootstrap, HTML, CSS.**

Key Achievements

Represented Final Year Project at SRTEX 2025

Our Final Year Project, "Smart Automated Classroom Attendance System (SACAS)", was showcased at the 4th Sindh Research and Technology Exhibition (SRTEX) 2025, held at Expo Center Karachi on 22nd-23rd January.

Selected as Vlounteer – NextGen Gaming & Robotics Society

Elected as the Volunteer of NextGen Gaming and Robotics Society, demonstrating speech and handling organizational activities.

Final Year Project Approved for Ignite NGIRI 2023-2024 Funding

Our FYP, "Smart Automated Classroom Attendance System", was selected and approved for funding by Ignite National Grassroots ICT Research Initiative (NGIRI) 2023-2024.

Strengths

Leadership & Team Management

Successfully led teams in academic and extracurricular activities, including serving as General Secretary of NextGen Gaming & Robotics Society.

Technical Expertise

Proficient in multiple programming languages, frameworks, and technologies, as demonstrated in various academic and personal projects.

Innovation & Problem-Solving

Designed and developed unique software solutions, such as machine learning-based attendance systems and automation tools.

Quick Learner & Adaptability

Ability to quickly adapt to new technologies and frameworks, evident in working across machine learning, web development, embedded systems, and software engineering.

Time Management

Effectively handles multiple projects simultaneously while ensuring high-quality outcomes. Skilled in prioritizing tasks, setting deadlines, and maintaining productivity under pressure. Experienced in balancing academic, client-based, and personal projects, ensuring timely delivery without compromising on performance or quality.

References

Available upon request

PROJECTS

Personal Projects
Some showcases in personal life.

- **Personal Portfolio**
  Developed a personal portfolio website using **HTML,CSS** and **Bootstrap.**
- **QuickTask Manager**
  A simple and interactive task management application built with **React.js**. It allows users to add, delete, and manage tasks efficiently. The app uses the useState hook for real-time updates, ensuring a smooth user experience.
- **Student Enrollment Form**
  A dynamic web-based form built with **HTML, CSS**, **JavaScript**, and **Bootstrap** for student registration. It allows users to input personal details. The submitted data is displayed in a structured table format for easy review.
- **React Calculator**
  A simple and interactive calculator built with **React.js**. It provides basic arithmetic operations, including addition, subtraction, multiplication, and division. Features include real-time input display, clear and backspace functionality, and error handling for invalid expressions
- **Cosmetic Website UI Design**
  This is a Cosmetic Website UI Design created as part of UI design practice using **HTML & CSS**.
- **CodeCave - Explore Technology, Development & Trends**
  CodeCave is a cutting-edge blog platform for tech enthusiasts, developers, and designers. Stay ahead with insightful articles on technology trends, web development, and coding best practices. Built with a modern **UI/UX** approach, CodeCave features a responsive design using **HTML, CSS, and Bootstrap**, ensuring seamless accessibility across devices.
- **TaskFlow - Smart Task Management System**
  TaskFlow is a robust task management system built with **Django, JavaScript, HTML, CSS, and Bootstrap**. It features a complete authentication system, including login, signup, forgot password, and OTP verification. Users can efficiently manage tasks with CRUD functionality, date-wise priority settings, real-time task timers, and status updates like "Pending" or "Completed."The backend is powered by **Django** with SQLite3, where user accounts and their associated tasks are stored in a one-to-one relational structure, ensuring that each logged-in user only sees and manages their assigned tasks..
- **Heart Stroke Prediction System**
  Developed a machine learning-based Heart Stroke Prediction system using the Random Forest Classifier. The model was trained and tested in Jupyter Notebook, utilizing libraries like Pandas, NumPy, Scikit-Learn, Matplotlib, and Seaborn for data preprocessing, feature selection, and visualization. The trained model was then integrated into a Django-based backend, ensuring smooth interaction between the UI and predictive model. The frontend was designed with HTML, CSS, and Bootstrap, providing a user-friendly interface for users to input their data and get predictions in real time. This system allows accurate stroke risk assessment with an intuitive and responsive design.