

Muhammad Ahmed Sohail

Software Engineer | Application Developer

Driven software developer with expertise in Java, C++, and other technologies seeks an internship to leverage strong problem-solving skills and a background in developing applications, aiming to contribute to and learn from high-impact projects.

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EDUCATION

BS Computer Science

National University of Computer and Emerging Sciences

08/2020 - Present

Islamabad

PROJECTS

Hotel Management System | Java, JavaFX

- Developed a comprehensive hotel management system using Java and JavaFX, featuring user-friendly interfaces, integrated back-end systems for data management and persistence, implemented MVC architecture for maintainability, and collaborated with a team to translate user requirements into functional solutions.

Traveler's Odyssey | Java, Android Studio

- Developed "Traveler's Odyssey," a Java-based mobile application in Android Studio, featuring comprehensive travel journaling, trip planning, and itinerary creation functionalities. Implemented user registration/authentication, offline journaling with text, image, and location tagging, cloud synchronization, and integrated a secure, scalable database system with powerful search capabilities. Designed intuitive UI/UX and integrated push notifications for trip reminders/alerts.

Item Rental Platform | Java, Android Studio

- Developed an item rental app with user registration, item posting, and chat functionalities. Designed a responsive UI with advanced search and rental features, integrating robust security for user data.

Aircraft Route Optimization | Python

- Developed an Aircraft Route Optimization system in Python using Genetic Algorithms (GAs) to dynamically optimize flight routes for commercial aircraft. Engineered a customized GA-based algorithm to adapt flight planning to weather conditions, air traffic, and aircraft performance, with a focus on reducing operational costs and enhancing efficiency. Designed a comprehensive fitness function to evaluate route efficiency, emphasizing metrics such as fuel consumption reduction and flight duration minimization. Created a user-friendly interface for visualizing optimized flight paths and performance metrics, improving stakeholder engagement.

WORK EXPERIENCE

Head of Publications

FAST Computing Society

08/2023 - 05/2024

FAST NUCES Islamabad

Achievements/Tasks

- Led content development, directed publication activities, managed projects from conception to distribution, and fostered a collaborative team environment to enhance the society's literary presence and ensure timely, high-quality content delivery.

SKILLS

Java

C++

HTML / CSS

SQL

Python

Database Management

UI/UX Design

Data Structures and Algorithms

Data Analysis and Visualization

Problem Solving

COURSEWORK

Object Oriented Programming

Software Engineering

Database Systems

Artificial Intelligence

Data Structures and Algorithms

Cloud Computing

SOFT SKILLS

Leadership

Strategic Planning

Collaboration and Communication

Adaptability

Creativity and Innovation