

# Ali Rehman

linkedin/in/alirehman1279 |  
ar03312366255@gmail.com | +92 331 236 6255

## EDUCATION

### FAST NUCES, KARACHI

BS(CS), 3.63 CGPA

July 2023

### WHALES COLLEGE

Grad. May 2019| Karachi, Pakistan

A-LEVEL,PRE-ENGINEERING,2AS1B

### BSS

Grad. May 2017| Karachi, Pakistan

O-LEVEL,SCIENCE

## ACHIEVEMENTS

- Dean's List (Fall '19, Fall '21, Spring '21)
- Runner up (Coders Cup)
- Bronze Medal (Alevel 2019)

## COURSEWORK

### UNDERGRADUATE

Information Retrieval

Operating Systems

Artificial Intelligence + Practicum

Database Systems

OOP+ Practicum

Data Structures + Practicum

Design And Analysis of Algorithms

Parallel And Distributed Computing

COAL + Practicum

Software Design And Analysis

## TECHNICAL SKILLS

### LANGUAGES

JavaScript/TypeScript • C# • Python •  
C/C++

### LIBRARIES/Frameworks

ReactJS • NextJS • NodeJS • ExpressJS •  
HTML/CSS • Bootstrap • Redux

### PRODUCTIVITY

Bash (Shell Scripting) • Figma •  
Papyrus, LucidChart (UML)

### DATABASES

MySQL • MongoDB • OracleDB

## SOFT SKILLS

- Communication and presentation
- Adaptability
- Business acumen
- Problem Solving
- Curiosity

## OBJECTIVE

- Computer Science undergraduate student with prior experience in software development. I'm searching for a position that will allow me to learn from more experienced colleagues while also honing my own project management skills. Additionally, I am passionate about Machine Learning and interested in systems for retrieving and analysing information.

## PROJECTS

### SHOPUS | E-COMMERCE WEB APPLICATION

Dec 2021 | Database Systems (Project)

- Designed & developed a *Full Stack Web App* for E-Commerce with functionalities for customers such as **redeem order, add multiple items to cart, post reviews, user Account, system generated Invoice**. While Admin can **handle transactions, update, insert, delete** products
- Worked on *requirement analysis & documentation* for (A) Proposal, (B) SRS/SDS, (C) Data Modelling/ (**Data Modeler, Papyrus**)
- Built the application with **ReactJS, ExpressJS** and **OracleDb**

### GITHUB FINDER | WEB APPLICATION

Jan 2022

- Search Github profiles with a React app. This project employs the Context API for state management, as well as the useContext and useReducer hooks, and is based on the Udemy course "Modern React Front To Back," which I completed during this learning phase.

### REACTFLIX | MOVIES/SHOWS TRAILER WEB APP

Sept 2021

- Developed a web application using **ReactJS, Bootstrap** to I created obtain a thorough understanding of the React js Front-end framework. This dynamic web App uses an API to retrieve data and displays movie and show trailers in a user-friendly interface.

### FACIAL RECOGNITION BASED ATTENDANCE SYSTEM | WINDOWS FORM APPLICATION

Fall 2020|Data Structure (project)

- for facial recognition, this project utilises EmguCV, a.net wrapper for OpenCV. Binary Search Trees were used to search, identify, and mark students' attendance, as well as other functionalities like generating.xls files for attendance for each course a student is registered in.
- moreover an admin panel with all functionalities required to manage course, student and instructor information.

### MERGING WORDS FROM A LARGE DATA FILE

Fall 2021|PDC (project)

- this research aims to combine words list using data decomposition of a massive data file and integrate them into an existing pool of words using C++ and OpenMP. The code will hash the words in the old file and seek for them in the new file. This solution reduced serial code processing time by 80

### AIRLINE MANAGEMENT SYSTEM

Spring 2020|OOP(project)

- a C++ based project for implementing key OOP concepts such as **inheritance, encapsulation, polymorphism** and **data abstraction**. Windows Form was utilised to create a user-friendly interface for both management and customers.