



# Ali Asghar Chakera

CS Senior at Habib University

AI & Machine Learning Enthusiast | Full Stack Developer

 aliasghar.chakera@gmail.com

 aliasgharchakera

 923352677442

 aliasgharchakera

## EXPERIENCE

### RESOURCE DEVELOPMENT INTERN

#### Habib University

Jan 2023 – Feb 2023 | Karachi, Pak

- Worked on Collection, Cleaning, Manipulation, and Organization of confidential data using Microsoft Excel and Python.

### TEACHING ASSISTANT

#### Habib University

Jan 2022 – Dec 2022 | Karachi, Pak

- Worked closely with instructors for designing and execution of coursework
- Assisted students with Verilog and Object Oriented Programming

### STUDENT MENTOR

#### Habib University

Aug 2022 – Dec 2022 | Karachi, Pak

- Worked closely with the Office of Academic Performance to assist freshmen

### OBE STUDENT EMPLOYEE

#### Habib University

Dec 2021 – Apr 2022 | Karachi, Pak

- Handled data in Microsoft Excel & report generation

### ORIENTATION LEADER

#### Habib University

Jul 2021 – Aug 2021 | Karachi, Pak

- Worked closely with the Office of Academic Performance to design and execute the orientation week
- Worked in a large group setting

### OFFICE OF ADMISSIONS INTERN

#### Habib University

Dec 2019 – Jan 2020 | Karachi, Pak

- Data Cleaning, Organization and Entry in Microsoft Excel

## EDUCATION

### HABIB UNIVERSITY BACHELOR'S OF SCIENCE IN COMPUTER SCIENCE

Aug 2020 - May 2024 | Karachi, Pak

## SKILLS

- Proficiency in English & Urdu
- Social Media Networking & Management
- Public Relations
- Team Worker
- Conversationalist

## TOOLS SOFTWARES & FRAMEWORKS

Verilog |  $\LaTeX$  | Markdown | MS Office  
Flutter | ReactJS | Django | Flask | MongoDB

## EXTRA CURRICULAR

### Invent for the Planet 2023

48hr international design challenge hosted by Texas A&M University for tackling today's biggest challenges.

Secured 2<sup>nd</sup> position in Habib University.

### ICPC Asia Regionals 2023

Qualified for the Regional round.

### Gaming Club 2022

Served as the Vice President of the Gaming Club and actively organized several events.

### Serve Hamdast 2021

Fundraised to help an underprivileged school in the community.

### Serve Blood Drive 2020

### IBA Leadership Conference 2020

## PORTFOLIO

(Hyperlinks attached)

### OPTIMIZING ILLUMINATION: USING AN EVOLUTIONARY ALGORITHM TO BALANCE ARTIFICIAL AND NATURAL LIGHT IN ROOMS

EA | CI | EPHEM

A method to optimize the arrangement of artificial lights in a naturally lit room using Evolutionary Computing to increase efficiency

### THEKEDAAR HATAO

FLUTTER | DJANGO

A cross-platform construction App that cuts out the need for a middleman.

### ANIMAL RECOGNITION

CNN | KERAS | TENSORFLOW | SKLEARN

A Convolutional Neural Network trained on Resnet16 weights that can recognize animals in tough environments.

### THE WORD GAME

WEAKAVL TREE | PYGAME | NLTK

A word game with an instant word search over the entire dictionary.

### FLAPPY BIRD

The game Flappy Bird coded in HDL Verilog.

### CRAZY TAXI

C++ | SDL | OOP

### EVENT MANAGEMENT SYSTEM

SQL | C# | SSMS

### RISC V PIPELINED PROCESSOR

RISC V | VERILOG

### AIRLINE BOOKING SYSTEM

PYTHON | GRAPH | DIJKSTRA