


# Muhammad Abbas

Rising Computer Science Senior at Habib University

Python Programmer & Flutter Application Developer

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## EDUCATION

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

Aug 2020 - Jul 2024 | Karachi, Pak

Related Courses Taken:

- Algorithm Design & Analysis
- Data Structures and Algorithms
- Data Structures II
- OOP Design & Methodologies (C++)
- Software Engineering
- Artificial Intelligence
- GPU Accelerated Computing
- Natural Language Processing
- Operating Systems
- Discrete Mathematics
- Computer Architecture (Verilog & RISC-V)
- Database Management Systems
- Nature of Computation

## CERTIFICATE COURSES

DataCamp:

- Intermediate Python
- Introduction to Data Science
- Data Manipulation with Pandas
- Data Joining with Python
- Data Cleaning with Python
- Visualization with Matplotlib

NVIDIA Deep Learning Institute:

- Fundamentals of Accelerated Computing with CUDA C/C++
- Getting Started with Deep Learning

Frontend Masters:

- Cross-Platform Mobile Apps with Flutter
- Firebase Fundamentals
- Developer Productivity

GreatLearning:

- Android Application Development (Flutter)

KhanAcademy:

- Intro to HTML/CSS: Making webpages

Coursera:

- Object-Oriented Programming in Python

## SKILLS

### APP DEVELOPMENT

Cross-Platform App Development with Flutter and Firebase,

### PROGRAMMING LANGUAGES

Python (Proficient), C/C++ (Proficient),  
Rust (Basic), JavaScript (Basic),  
Dart (Proficient),

### TOOLS & SOFTWARES

Linux (Proficient with Archlinux, Ubuntu, Fedora)  
Verilog(Proficient), HTML(Basic), CSS(Basic), LaTeX(Proficient),  
Markdown(Proficient), Raspberry pi(Basic), Wordpress(Proficient)

## EXPERIENCE

**DATA INTERN AT OFFICE OF INSTITUTIONAL RESEARCH** HABIB UNIVERSITY

Aug 2021 – Sep 2021 | Karachi, Pak

- Worked on Data Collection, Cleaning, Manipulation and Organization using NumPy, Pandas and Excel.

**EDLAB PAKISTAN** DATA INTERN

Sep 2021 – Oct 2021 | Karachi, Pak

- Learned Data Analysis using Power Bi and Excel.

**STUDENT MENTOR** HABIB UNIVERSITY

Jan 2023 – May 2023 | Karachi, Pak

- **Github Workshop Facilitator:** conducted two workshops on git and github.
- **Teaching Assistant for Data Structures & Algorithms** Mentored students in the course and assisted them in labs and assignments.

## PORTFOLIO

(Hyperlinks attached)

### CNN BASED ANIMAL DETECTION MODEL (PY)

A CNN based model which detects animals in images and classifies them into 6 categories.

### FRUIT NINJA GAME (C++)

A remake of the popular Fruit Ninja Game using C++ and SDL Library.

### EERTREE VISUALIZER (PY)

A Visualizer which constructs and displays Eertree (A Palindromic Data Structure) for any palindrome.

### CAR RENTAL SYSTEM (PY)

A Car rental System with Complete Admin and User Panels.

### SDL MINIGAMES AND SIMULATIONS (C++)

A collection of Minigames and Simulations made using SDL Library.

### PHYSIOTHERAPIC TREX GAME (VERILOG)

A Game for physiotherapists to keep them motivated during exercise.

### Flutter Projects:

#### YOH SIN WORKPLACE

An App to provide a platform for freelancers and employers to connect and work together.

#### INFAAQ PLATFORM (KHIDMAT)

An platform for NGOs to post their cases & the donors can deposit the amount in the receivers account directly.

## COMPETITIVE PROGRAMMING

### ICPC Asia Regionals 2022

Secured 19th position, solved 4 questions.

### Google KickStart May 2022

Secured 6th position all over Pakistan