

Muhammad Abbas

Rising Junior at Habib University

Data Enthusiast & Full-Stack Application Developer [Flutter|Firebase]

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EXPERIENCE

OFFICE OF INSTITUTIONAL RESEARCH AT HABIB UNIVERSITY DATA INTERN

Aug 2021 – Sep 2021 | Karachi, Pak

- Worked on Data Collection, Cleaning, Manipulation and Organization from confidential PDF files using NumPy, Pandas and Excel.
- It was a two-month summer internship programme which entailed meeting with Dean and Program Directors, Data Collection, Cleaning, Manipulation and Organization, the model was later presented before the University President.

EDLAB PAKISTAN DATA INTERN

Sep 2021 – Oct 2021 | Karachi, Pak

- Learned Data Analysis using Power Bi and Excel.
- Worked on Urban and Rural Educational Data Models.

EDUCATION

HABIB UNIVERSITY BACHELOR'S OF SCIENCE IN COMPUTER SCIENCE

Aug 2020 - Jul 2024 | Karachi, Pak

Related Courses Taken:

- OOP Design & Methodologies (C++)
- Data Structures II
- Data Structures and Algorithms
- Discrete Mathematics
- Computer Architecture (Verilog & RISC-V)

CERTIFICATE COURSES

DataCamp:

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

Udemy:

- The Complete 2021 Flutter Development Bootcamp with Dart

PluralSight:

- Firebase Fundamentals
- Creating a Full-Stack App with Flutter 2 and Firebase 7

GreatLearning:

- Android Application Development (Flutter)

Coursera:

- Object-Oriented Programming in Python
- FPGA Design for Embedded Systems
- Hardware Description Languages for FPGA Design

KhanAcademy:

- Intro to HTML/CSS: Making webpages

DJ SINDH GOVT. SCIENCE COLLEGE INTERMEDIATE PRE-ENGINEERING

Aug 2018 - Jun 2020 | Karachi, Pak

- Secured A1 Grade (Overall 87.5%) in HSSC
- Participated in Inter-Collegiate Cricket Tournament

COMPETITIVE PROGRAMMING COMPETITIONS

ICPC Asia Regionals 2022

Secured 19th position with 4 questions solved.

Google KickStart May 2022

Secured 6th position all over Pakistan with 2 questions solved.

Google Code Jam 2022

Qualified for Round 1, (Couldn't due to Finals)

SKILLS

APP DEVELOPMENT

Cross-Platform

FrontEnd:

Flutter

BackEnd:

Firebase

PROGRAMMING LANGUAGES

Python (Expert) C++ (Pro-

ficient) Dart (Proficient)

JavaScript (Basic)

OTHER LANGUAGES

& Softwares Ver-

ilog(Proficient), HTML(Basic),

CSS(Basic), LaTeX(Proficient),

Markdown(Proficient), Rasp-

berry pi(Basic)

MS Excel, MS PowerPoint,

Adobe Premiere, Adobe Pho-

toshop, Xilinx Vivado

PROJECTS

FRUIT NINJA GAME (C++)

The Game was presented as Final Project of OOP so it heavily depends on the four pillars of OOP.

EERTREE VISUALIZER (PY)

A Visualizer which constructs and displays Eertree for any palindrome, Eertree is a data structure used to efficiently store and manipulate palindromes in $O(n)$.

CAR RENTAL SYSTEM (PY)

A Car rental System with Complete Admin and User Panels.

T-REX GAME (VERILOG)

A Game for physiopatiens to keep them motivated during exercise, developed through Verilog and requires an FPGA, two IR-Sensors and a Display Monitor.

CNN BASED SPECIALIZED PROCESSOR DESIGN (VERILOG - IN PROGRESS)

This is a Research Project which on designing a Processor specialized for getting trained on CNN Architectures. It is still in Progress.

WASEELA WELFARE (FLUTTER - IN PROGRESS)

A Cross-Platform App which manages the trust related tasks and has functional admin, trustee and donor panels.