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.

GITHUB WORKSHOP FACILITATOR Habib University

Mar 2023 – Mar 2021 | Karachi, Pak
- → Conducted two workshops on Git and Github and taught students advanced concepts like Rebasing, Branching, Resolving Merge Issues etc.

TEACHING ASSISTANT FOR DATA STRUCTURES AND ALGORITHMS Habib University

Jan 2023 – May 2023 | Karachi, Pak
- → Mentored students in the course and helped them with 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 physiopatients to keep them motivated during exercise.

Flutter Projects:

YOHSIN 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