Muhammad Abbas

Computer Science Senior at Habib University

Python Programmer & MlOps Engineer

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EXPERIENCE

DEVOPS INTERN   PULLFLOW
Jul 2023 – Aug 2023 | California, US
- ➜ Worked on Data Collection, Cleaning, Manipulation and Organization using NumPy, Pandas and Excel.

DATA ENGINEERING INTERN   UNITED BANK LIMITED
May 2023 – Jun 2023 | Karachi, Pak
- ➜ Worked on Data Collection, Cleaning, Manipulation and Organization using NumPy, Pandas and Excel.

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 physiopatients to keep them motivated during exercise.

COMPETITIVE PROGRAMMING

Game of Code 5.0
Won the 1st prize in the Game of Code 5.0.
ICPC Asia Regionals 2022
Secured 19th position, solved 4 questions.

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
- ➜ Introduction to Graph Neural Networks
- ➜ Introduction to Physics-Informed Machine Learning with Modulus

Frontend Masters:
- ➜ Cross-Platform Mobile Apps with Flutter
- ➜ Developer Productivity

GreatLearning:
- ➜ Android Application Development (Flutter)

KhanAcademy:
- ➜ Intro to HTML/CSS: Making webpages

SKILLS

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)
MS Excel, MS PowerPoint,