



Muhammad Abbas


Data Engineer at ImproData, [Python Dev. & DataOps, MLOps Engineer]

Computer Science Senior at Habib University: Minor in Electrical & Computer Engineering

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EXPERIENCE

DATA ENGINEER IMPRODATA

Dec 2023 – Present | Victoria, Australia

- Working on Azure Databricks (PySpark) for risk management of cyber-security data, building bronze, silver and gold layers.
- Working on automated pipeline dev using GCP Cloud Functions to transfer compressed json bulk data from local to GCS & population to BigQuery

DEVOPS INTERN PULLFLOW

Jul 2023 – Aug 2023 | California, US

- Worked on AWS EKS (Kubernetes) and Docker as I was responsible for designing & implementing the infrastructure that was on AWS to on-premise server.
- Worked on Budibase Dashboarding & hosting it on pullflow subdomain using traefik for loadbalancing.

DATA ENGINEERING INTERN UNITED BANK LIMITED

May 2023 – Jun 2023 | Karachi, Pak

- Built a pipeline using Informatica for streaming ingestion of UBL's data from Qatar & Bahrain in Hive Data Lake.

DATA INTERN AT OFFICE OF INST. 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

Aug 2023 – Dec 2023 | Karachi, Pak

- **Teaching Assistant for OOP & Design Methodologies**
Mentored students in project, labs and assignments.
- **Github Workshop Facilitator:** conducted two workshops on Git and GitHub.
- **Teaching Assistant for Data Structures & Algorithms**
Assisted students during labs and with assignments.

SKILLS & SOFTWARE

PROGRAMMING & QUERY LANGUAGES & FRAMEWORKS

Python, SQL, C/C++, Rust, Dart,
Databricks, PySpark, Flutter, Django, RestFramework

CLOUD & SOFTWARE

Google Cloud Console (Storage Accounts, BigQuery),
Azure(Databricks, Storage Accounts), Linux (Fedora/Ubuntu)
Docker, Kubernetes, HTML, CSS, LaTeX, Markdown, Raspberry
pi, Verilog, Wordpress, MS Excel, MS PowerPoint,

COMPETITIVE PROGRAMMING

Game of Code 5.0

Won the 1st prize in the Game of Code 5.0 receiving 50k/-

ICPC Asia Regionals 2022

Secured 19th position, solved 4 questions.

EDUCATION

HABIB UNIVERSITY BS COMPUTER SCIENCE

Aug 2020 - Jul 2024 | Karachi, Pak

CS-Electives & Higher Level Courses:

- Algorithm: Design & Analysis
- Artificial Intelligence
- GPU Accelerated Computing
- Natural Language Processing
- Computer Vision
- Web & Mobile Development
- Competitive Programming
- Software Engineering

CERTIFICATE COURSES

Udemy Specializations:

- Azure Databricks & Spark For Data Engineers
- PyTorch for Deep Learning Bootcamp

NVIDIA Deep Learning Institute:

- Fundamentals of Accelerated Computing with CUDA
- Getting Started with Deep Learning

DataCamp:

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

GreatLearning:

- Android Application Development (Flutter)

KhanAcademy:

- Intro to HTML/CSS: Making webpages

PORTFOLIO

(Hyperlinks attached)

INFAAQ PLATFORM NGO

An app with a website for NGO operations i-e Transactions, Event Management etc, Backend was on Django, API was Rest, Frontend was on React for website & Flutter for App.

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. Also Learned basics of game development

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 stay motivated during exercise.