Muhammad Abbas

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PROFESSIONAL SUMMARY

Focused **Data Engineer** with a **Bachelor's in Computer Science** from **Habib University**, Distinguished for experience in **Rust** and **Data Science** on top of experience with **Data Engineering tools**, with a track record of collaboratively and independently delivering **convertible PoCs** and then developing **production tools** that saves several runtime hours of cloud machines for fintech industry. Well versed in architectural planning for Big data. Delivering well-documented, tested, and operable code. Efficient in collaborating and communicating new ideas and opinions and evaluating the existing ones

TECHNICAL SKILLS

Languages : Rust, Python, Scala, C/C++, Golang, SQL (Postgres, MSSQL, MySQL), NoSQL (MongoDB), HTML, CSS, JS (basic)
Data Eng. Tools : Spark, NiFi, Airflow, Databricks, Informatica
Software Frameworks : Axum, Actix, Django, Flutter, RestFramework
AI Frameworks : Tensorflow, PyTorch, JAX, NumPyro
Cloud, DevOps and API Tools : AWS, Azure Cloud, GCP, Git, Docker, Kubernetes, Postman, Linux (Longtime Desktop User)
Others : Polars, Pandas, Design Patterns, Debugging, Root Cause Analysis, Architecture Planning, Working with JSON & Parquet

EXPERIENCE

Data Engineer I | *Logiciel Services LLC.* — United States   *Full-time | May 2024 ——— Present*
- Developed Rust pipelines for EOD processing of FIX logs to CAT files, C# pipeline previously running in 500mins, got optimized to 50mins with Rust & Nifi, saving around 400 mins daily on AWS machine.
- Orchestrated the data ingestion, transformation and AI pipelines through airflow DAGs, triggering pipelines of Nifi, Spark, Rust and AI (Python) on daily basis.

Data Engineer I | *ImproData* — Victoria, Austrailia   *Part-time | Dec 2023 – March 2024*
- Worked on Azure Databricks (PySpark) for risk management of cyber-security data, building bronze, silver and gold layers.
- Worked on automated pipeline dev using GCP Cloud Functions to transfer compressed json bulk data from local to GCS & population to BigQuery

DevOps Intern | *Pullflow Inc.* — San Jose, California   *Full-time | July 2023 - Aug 2023*
- 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* — Karachi, Pakistan   *Full-time | May 2023 – Jun 2023*
- Built a pipeline using Informatica for streaming ingestion of UBL's data from Qatar & Bahrain in Hive Data Lake.
- Participated in architecture analysis of data ingestion to datalake of data from UBL Qatar & Bahrain to ensure that the production AI pipelines running in realtime on UBL Pak's data can be used for data from Qatar & Bahrain.

Data Analyst Intern | *Edlab Pakistan* — Karachi, Pakistan   *Part-time | Sep 2021 – Oct 2021*
- Worked on Data Collection, Cleaning, Manipulation and Organization using NumPy, Pandas and Excel for Demographic Educational Data

Student Mentor | *Habib University* — Karachi, Pakistan   *Part-time | Aug 2023 – May 2024*
- Teaching Assistant for Data Structures & Algorithms: Assisted students during labs and with assignments.
- Git & Github Workshop Instructor: Conducted two workshops on Git and GitHub.
- Teaching Assistant for Data Structures & Algorithms: Assisted students during labs and with assignments DSA.

EDUCATION

| Habib University | **BS in Computer Science** | GPA : 3.31 | *August 2020 – June 2024* |

PROJECTS

Astroflow | *Django, IBM Cloud, SQLite, Function-as-a-Service, Kubernetes, OpenShift*   *Nov 2023*
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- Ut consequat semper viverra nam libero justo laoreet sit amet. Feugiat nisl pretium fusce id velit ut tortor pretium.

Lox Interpreter | *Python, numpy. D3.js*   *Spring 2022*
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- In cursus turpis massa tincidunt dui. Cras pulvinar mattis nunc sed blandit libero volutpat sed. Suspendisse potenti nullam ac tortor.

Rusqlite | *LaTeX*   *November 2021*
- In cursus turpis massa tincidunt dui. Cras pulvinar mattis nunc sed blandit libero volutpat sed. Suspendisse potenti nullam ac tortor.