

# QUAZI FARHAN

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## OBJECTIVE

Seeking a position in Data Analysis

## HIGHLIGHTS OF QUALIFICATIONS

- 5 years of experience in data processing and analysis in Python and SQL
- Successfully overhauled data processing pipeline resulting in improved efficiency by 4 times in comparison to previous workflow
- Expertise in designing and implementing data driven studies on real world problems, collecting, wrangling and analyzing data to identify trends and patterns
- Successfully implemented pipeline of Extract-Transform-Load (ETL) for organizing production data from 150+ industrial factories into a centralized dataset
- Applied machine learning models on the processed dataset
- Worked with Python (pandas-scikit stack), SQL and Tableau on daily basis
- Handled unorganized data from hundreds of primary sources and processed them into a centralized data warehouse
- Proficient in English from working at multi-national organization

## TECHNICAL SKILLS

- **Python, Pandas, Numpy** – Developed modules to extract, transform and validate raw data gathered as part of different projects and consolidate them together
- **SQL, PostgreSQL, SQLAlchemy** – Designed a PostgreSQL database and implemented interface to it using SQLAlchemy for principle investigators. Wrote procedures to maintain the database and queries to fulfill supervisor requirements on regular basis
- **Data analysis** – Analyzed productivity and other metrics across different industrial organizations to identify key performance indicators. Determined relative efficiency and identified best practices among different organizations
- **Scikit-learn, Jupyter Notebook** – Performed analysis and data mining to determine data quality
- **Tableau**– Prepared visualizations and dashboards for presentations to supervisors on regular basis
- **Exploratory data analysis** – Performed exploratory data analysis with Matplotlib, Seaborn and Tableau
- Proficient with Git, Docker, Flask and Linux scripting at everyday use

## EMPLOYMENT HISTORY

### Innovations for Poverty Action, Bangladesh

- **Senior Research Analyst** **2016-2019**
  - Played crucial role in collection and management of production data collected from 150+ industrial factories across 3 countries for multiple research projects conducted by Oxford University
  - Processed large amount of related government data to connect the industry dataset with corresponding government data for the project

- Modeled the collected data for a PostgreSQL database. Implemented it and developed interface in Python (with SQLAlchemy) with the database for principle investigators
- Wrote procedures, triggers and views for the database to address evolving requirements
- Ensured data processing and management practices are compliant with research protocols and data security practices (e.g. removing personally identifiable information)
- Generated periodical reports and communicated them to supervisors
- Participated in design and implementation of multiple Randomized Control Trial (RCT) studies
- Successfully completed 6 projects while meeting the deadlines
- Prepared documentation and specification for the developed systems

- **Research Analyst**

**2014-2016**

- Developed Python module (with Pandas-pandas stack) to automate the extraction and cleaning of collected data from primary sources
- Implemented modules to ensure data integrity while expediting collection from primary sources
- Developed Python modules to improve data entry and processing efficiency by nearly 4 times

## **EDUCATION**

### **Bachelor of Science Degree in Computer Science and Engineering**

Bangladesh University of Professionals, Bangladesh

- Accredited from WES as equivalent of Canadian Bachelor's degree of 4 year
- Represented my institute at multiple national programming contests

## **PROFESSIONAL DEVELOPMENT COURSES**

### **PyCamp (2016), Bangladesh Computing Council, Bangladesh**

- 5-day workshop on developing maintainable Python solutions conducted by ICT Ministry of Bangladesh government

### **Hand-on Statistics with R (2018), DataWhiz, Bangladesh**

- 2 month course on applying Statistical Concepts using R and RStudio

## **MEMBERSHIPS**

Professional Membership, Association for Computing Machinery (ACM)