



Muhammad Shafay Amjad

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Hostel
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University Lahore
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Work experience

Teradata

18 July 2016 — Present

Data Integration Intern

As a part of DI Team as an GDC-intern, Skills i gained from Teradata Tends to be in SQL , Teradata and Data sciences core concepts .Being there i improved my Discipline , Time management and Teradata's work space utilization . Being in the Data Integration Team is an E.T.L , While the Loading of the data from the raw from to a suitable platform which can be later used in the semantics, as well as Business analysis and Visualization

Qualifications

Bachelors of Science in Computer Science from G.C.U. Lahore (2013-2017) , Currently Enrolled. c++,python in Advance Level i.e. O.O.P. Concepts,Data Structures,Data Sciences,Data Visualization, Web access through python and the databases along with data sciences. I'm a Certified Coder in SQL Teradata with Multiple Level Certification in sql including A.L.O, T.A.A, R.I.A, Objects,Complex queries, D.M.L(complex) Object Oriented Programming in Java , Visual Programming in c# XML Editing , Python (intermediate level programming web-crawlers or web spiders ,database,data analysis,data visualization, File filtering , GUI TKINTER) ,Html 5 complete Basics. Some of the merits and things i gained so far are :

- Punctual, fast learner, and work well with others
- Sportsman spirit
- Courage to know
- VBA Certified Coder
- Python Specialist
- Html 5 Certified Coder
- SQL AND c++ verified coder
- Applied Data Science Specialization (on going)

Interests

- **Software Development.**
- **Algorithm Creating.**
- **Database Management**
- **Data Analysis**

- Data Visualization
- Data Sciences
- Data Integration
- Web-Scrapping and Web API

Education

Bachelor of Science in ComputerSciences

2013 — Present

G.C.U Lahore

Major subject (up-till now): Object Oriented Programming in Java. Visual Programming using c#. Database Structure in c++. Introduction to Computer Theory (theory of Automate), Database Management System, introduction to Algorithm, Compiler Construction, Artificial Intelligence , Operating System

Python For EveryBody Specialization

Sept 2015 — APRIL 6 2016

University of Michigan USA on Coursera

<https://www.coursera.org/account/accomplishments/specialization/certificate/S7LFZBFD5KAP>

ID: S7LFZBFD5KAP

1) Programming for Everybody (Getting Started with Python) 6 weeks

Verification Number: coursera.org/verify/KE8BG9CQALKQ

2) Python Data Structures 5 weeks

Verification Number: coursera.org/verify/6797MDGLC7P3

3) Using Python to Access Web Data 6 weeks

Verification Number: coursera.org/account/accomplishments/verify/AGRKLT2J4AH6

4) Using Data Bases in Python 6 weeks

Verification Number: coursera.org/verify/3RN7GBF4W2LR

5) Capstone: Retrieving, Processing, and Visualizing Data with Python 5 weeks

Verification Number: coursera.org/account/accomplishments/certificate/65GQUZMLHLCF

ADDITIONAL:

6) Programming with Python ALISON COURSE

7) A Gentle Introduction to Python Programming (UDEMY SEP 2015)

License No: UC-NE6F97XF

Certification u.r.l : <http://ude.my/UC-NE6F97XF>

8) Python for Data Science (DATACAMP MAR 2016)

Certificate id: 7d90a5945930fb95f71350bfe26d9caab1825855

9) Try python (codeschool JAN 2016)

Verify at : <https://www.codeschool.com/users/1987820>

Introduction to Html5

— Sep 21, 2015

University of Michigan on Coursera

Verify at coursera.org/verify/Z7H7ZQGXEVVH

2) Entrepreneurs to Register a Web domain name & get Web Hosting(Udemy June 2016)

Certification URL: <https://www.udemy.com/certificate/UC-VEDV4K6O/>

Certification No : UC-VEDV4K6O

Programming and the Web for Beginners(JAVA)

— October 24, 2015

Duke University on Coursera

verify at: www.coursera.org/account/accomplishments/certificate/TDCENAG7JTAE

2) Java for Noobs (Udemy Mar 18, 2016)

certification no : Certificate no: UC-42YEPSI6

3) Get started with Git and Github(UDEMY JUN 2016)

License Number :UC-XWS5CGBB
Certification Link : <https://www.udemy.com/certificate/UC-XWS5CGBB/>

4) Go-Golang Programming

License Number: UC-6PJL1OGX
Url: <https://www.udemy.com/certificate/UC-6PJL1OGX>

5) Introduction to c++ (Microsoft,EDX December 4, 2015)

Certificate ID:007da8c798f8431eaf0589955d12f534

DAT201X: Querying with Transact SQL

— December 21, 2015

Microsoft E.D.X

Certificate ID: e51b7c55eacf4e3b9c80406021f23a36

2) SQL SERVER DBA (Udemy Dec 2015)

Certificate no: UC-AG2JCXHD
Certificate url : [ude.my/UC-AG2JCXHD](https://www.udemy.com/certificate/UC-AG2JCXHD)

3) TRY SQL(CODESCHOOL Jan 2016)

verify at: www.codeschool.com/users/MuhammadShafayAmjad/badges/490

c# Basics : Learn to code the Right way

— Mar 2016

Udemy

Certification url : <https://www.udemy.com/certificate/UC-QTHNV6JO>

2) Macros & VBA Excel (Udemy Aug 2016)

Certification url : <https://www.udemy.com/certificate/UC-90JWIZ5G/>
License number : UC-90JWIZ5G

Exam1 and Exam 2 WBT's

— Sept 2016

Teradata

18/Aug/2016	Teradata SQL Intermediate: Date/Time and Formatting(6 CR/HR)	Web Based Training Complete
16/Aug/2016	Teradata SQL Intermediate: Complex Aggregations(15CR /HR)	Web Based Training Complete
10/Aug/2016	Teradata SQL Intermediate: Complex Queries(6CR/HR)	Web Based Training Complete
9/Aug/2016	Teradata SQL Intermediate: Objects and Session Modes(9CR/HR)	Web Based Training Complete
5/Aug/2016	TechBytes: Teradata Module for Python(0.25 CR/HR)	Web Based Training Complete
5/Aug/2016	Teradata SQL Basics: DML Part 2(6CR/HR)	Web Based Training Complete
3/Aug/2016	Teradata SQL Basics: DML Part 1(10CR/HR)	Web Based Training Complete
1/Aug/2016	Teradata SQL Basics: Objects(6CR/HR)	Web Based Training Complete
28/Jul/2016	Teradata SQL Basics: Fundamentals(7CR/HR)	Web Based Training Complete
26/Jul/2016	Introduction to the Teradata Database WBT(10CR/HR)	Web Based Training Complete
22/Jul/2016	Fundamental Concepts of the Teradata Analytic (1CR/HR)	Web Based Training Complete
21/Jul/2016	Reference Information Architecture Overview(0.5 CR/HR)	Web Based Training Complete
21/Jul/2016	Access Layer Overview(2CR/HR)	Web Based Training Complete

Projects

Projects Work space

Freedom Web Browser & Mail Debugger(MVS c#)

The Freedom Web Browser is a web based, Offline as well as an online project which uses the mail clients and the web browser technology along with the additional features, The project is a C# based Windows Form application, it uses the

Threading techniques along with the additional feature of running the Processes connecting to different type of languages which are present in the current Windows. It is linked to the processes location such that it can execute those with the help of a single click. The Browser also supported the s.m.t.p client connectivity dealing with the sending and the receiving of the mail along with the browsing of the different website. The history was being saved using the X.M.L file storage in the form of Tags and sub Tags (child and parent).

A Scary Night(UNITY)

A Scary Night is a zombie game which is unity based project , it had the main task of the implementation of the Artificial Intelligence different algorithm implementation (A* Algorithm) such it had the ability to be scripted through the enemy such that the enemy had the ability to trace and attack the player once it is eye sighted or seen through the eying effect of the enemy , at the same time when the enemy detects it , algorithms start working such that the searching as well as the hurdles uncovering is detected. It is by far a First person shooter game. I developed all the graphics and the searching scripts.

Online Education System Portal Database Development(SQL)

An online education system portal database was completely designed in a dynamical programmatic way. Such that the Database was completely normalized and the data was stored accurately according to the storage, rather than the flat file system. The database dealt with Thousands of students linking from all the places, having separate signup and login spaces, The admin had a separate login as per Front end (idea) which was the keen motivation during the building of the project.

Finance Sheet Scrapper(PYTHON)

A Yahoo Finance sheet scrapping script was developed in python which had the ability to scrap all the provided number of pages in an ordered manner and then store in to a database using the SQLite Tool. The Scrapping Techniques for yahoo finance sheet testing turned out to be 92% Accurate, The scrapping script had the ability to scrap through each of the attributes of the Html tags and the java script and convert them into the xml tags such that the finding and the extracting of the data is done in the form of the xml, usually the modification of the url library and the BeautifulSoup4 library was done and used to keep the keen interest of the project on the accuracy.

Optical Character Recognition(PY)

By keeping in mind, the character recognition techniques I , developed a special script in python which had the ability to scan each 8x8 pixel and on the basis of the threshold and the probability theorem's , it can distinguish and tell which number or numeric number is written in the specific pixel. The image is converted into black and white after the probability and statistic calculation then the pixels are matched to already known different result , 10 result per number then on the basis of the probability the number is predicted , the accuracy is 85% correct.

C++ Compiler in python(c++ py)

This is a Grammatical Compiler based project which has 6 phases.

The cpp. of the text file in which the c++ code is written is checked for the pro processor directive then the preprocess directive are replaced by the inner file data form the header file. After the replacements. The file is then send to the Grammatical Expression checker and then the lexical analyzed token are generated using the python scripts, these are the script which are used to compile the file through each phases. After that the syntax tree is generated and then the 3 address code (in progress) is created.

Data Analysis and plotting(PY)

Huge data analysis and Visualization using the matplotlib libraries and the Numpy array's in python was done in these projects usually the huge data is worth millions of columns each possessing a unique or duplicate value, the main purpose of the analysis was to analyze the huge data and to visualize that data in the form of pie charts, bar charts , 3D – Visualized charts such that it is easy for the human eye to see and visualize and predict the upcoming future results in the specific time of period.

Natural Language Processing(PY)

NLTK is one of the most and the best package offered by the Google and integrated in the python, the natural language processing is close to artificial intelligence in a sense we use the probability and the Bayes theorem to create and let the computer understand the sentences such that the computer can easily generate the respectable result and the messages. Currently I am working on the N-Gram Language processing.

References

References available upon request.

Projects are mentioned in the additional file.

Extracurricular activities

2009 Southern Zone Hockey Championship (Winner)

2010 Southern Zone Hockey Championship(Semi-Finalist)

2010 Pakistan's Hockey Federation Camp (Selected)

2009-2011 United Bank Limited Sponsorship to Pakistan Hockey Federation.

2011 Southern Zone Hockey Championship(Runner-Up)

2012 Punjab youth Hockey Championship (Winner / Rawalpindi Region)

2014 Kick Boxing Quarter-Finalist of All Pakistan Universities.

2014 Scavenger Hunt Participant.