Address

H 166-B,Queen St, Green Avenue 44000, Islamabad, Pakistan

Ali Hassaan Mughal

Objective

Tel & Skype

+92 345 8156889 ali_hassaan2006

Enthusiastic to be a part of revolution through Computer Science & Technology.

Education

Mail

alihassaanmughal @hotmail.com

Interests

Datastructures Algorithms,

AI, Programming,

Parallel Computing,

MYSQL, Research, Maths & Hiking.

2016 - 2020 BS Computer Science National University of Sciences & Technology, Pakistan

CGPA: 3.81/4.00 (Rank: 2/38)

Major: Computer Science Minor: Mathematics.

2014 - 2016 Intermediate in Pre-Engineering Islamabad College For Boys G6/3, Pakistan

Aggregate: 75.82%

Major: Mathematics, Physics and Chemistry.

2012 - 2014 Matriculation in Computer Science Islamabad College For Boys G6/3, Pakistan

Aggregate: 87.62 (Rank: 1 / 44)

Main subjects: Computer Science, Mathematics, Physics and Chemistry.

Web & Git

LinkedIn GitHub

Projects

01/2018 **Search Engine (Highest Ranking in Batch)**

Data Structures & Algorithms

Language: Java

For basic understanding took help from Google's research paper called largescale search engine.

Maximized the use of data structures like lists, hash tables and Java's SAX-Parser API to process data and search through it. The single word search had a complexity of $\theta(1)$ and multi word search was $\theta(n\text{Logn})$.

Programming

OOP, Python, C, C++, Java, HTML, CSS, Laravel & PHP

01/2018 Sahulat (2nd in Batch)

Database Project

Language: Laravel (PHP) (MYSQL)

An application which provides detail about the services available in a specific location in any country with their distances and ratings. The idea was to solve problem of finding good service providers and to display best results based on cumulative ranking based on their ratings and distance. Providers could add data about their services and people could rate them and search according the ratings.

12/2017 Garden Watering System

Internet Of Things

Language: C/C++ for Arduino

A system for watering the garden according to the moisture of each plant's soil. It waters the garden when the moisture drops down the threshold level for a defined time. The technique used was water dripping through pipe.

Personal Skills

Curiosity, Team Work, Initiative, Organize

05/2017 Shipping Optimization System

Language: Java (Object Oriented)

Object Oriented Programming

Languages English Urdu A system which calculates the closest route for delivery of products using Google maps APIs. It searched the shops for items, if the item was found it calculated the distance from each shop to customer and chose the best possible route for the delivery based on the distance. **My instructor liked**

this idea a lot.

Previous Small Projects

Python/Javascript/C

Locator (Python and JavaScript): It used browser to track present location

of user through javascript and scrapped that data into python. RSA (C): It was an encryption algorithm using prime numbers. Image Editor (C): Edits images with some defined effects.

Experience

02/18 - 03/18 R & D Intern

TUKL Lab, SEECS, NUST H12, Islamabad, Pakistan

Instructor: Dr. Faisal Shafait. **Subject:** Deep Learning.

I researched on table data extraction algorithms using Deep learning.

09/17 - 01/18 Teaching Assistant

SEECS, NUST H12, Islamabad, Pakistan

Instructor: Ms. Sana Khalique.

Subject: Fundamentals of Computer Programming.

Assigned duty was to research about student's programming problems and help students in programming & projects. It also included assisting professor in grading quizzes, assignments and laboratory material.

07/17 - 08/18 Web Development Intern

Ausomatic, CIE, NUST H12, Islamabad, Pakistan

It was a research cum development internship. I was assigned the task of researching new technologies that can be used for better results. Developed modules of a college management system using following the technologies: Laravel (PHP), Javascript, Ajax and Jquery, SQL, HTML & CSS.

06/17 - 07/17 Web Development Intern

KTH LAB, SEECS, NUST H12, Islamabad, Pakistan

Worked on a point of sale system using the following technologies:MySQL, Laravel(PHP), Javascript, HTML & CSS.

Courses

02/2018 **Deep Learning (Scholarship)**

DeepLearning.ai on Coursera

It is a series of 5 courses related to deep learning including CNNs, RNNs, GRUs and LSTMs.

Certifications

12/2016 Office 2013 Specialist

Microsoft

Microsoft Excel, Microsoft Word and Microsoft PowerPoint.

Accomplishments

02/2018	Merit Based Scholarship National University of Sciences and Technology, Pakistan I have received merit based scholarships thrice in a row.	
08/2014	Education Scholarship Free education on merit in my college.	Islamabad College For Boys G6/3, Pakistan
07/2014	Topped High School Topper of my Computer Science batch i	Islamabad College For Boys G6/3, Pakistan n high school.