

Address

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

Tel & Skype

+92 345 8156889
ali_hassaan2006

Mail

alihassaanmughal
@hotmail.com

Interests

Datastructures
Algorithms,
AI, Programming,
Parallel Computing,
MYSQL, Research,
Maths & Hiking.

Web & Git

LinkedIn
GitHub

Programming

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

Ali Hassaan Mughal

Objective

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

Education

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.

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 large-scale 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 $\theta(n \log n)$.

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

Languages

English Urdu

05/2017

Shipping Optimization System

[Object Oriented Programming](#)

Language: Java (Object Oriented)

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 -

R & D Intern

[TUKL Lab, SEECS, NUST H12, Islamabad, Pakistan](#)

Instructor: Dr. Faisal Shafait.

Subject: Deep Learning.

I am researching and finding techniques on table data extraction algorithms using Deep learning.

09/17 - 01/18

Teaching Assistant

[SEECS, NUST H12, Islamabad, Pakistan](#)

Instructor: Ms. Sana Khaliq.

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 consists of following 5 courses:

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 | Islamabad College For Boys G6/3, Pakistan
Free education on merit in my college. |
| 07/2014 | Topped High School | Islamabad College For Boys G6/3, Pakistan
Topper of my Computer Science batch in high school. |