

Muhammad Hashir Shoaib

A focused individual who is trying to solve today's problems using engineering skills with passion for learning, leadership and collaboration. Interested in software development.

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Education

B.E. Computer Engineering National University of Sciences and Technology (NUST) 2016 - 2020

Work Experience

RiseTech, Islamabad

JUL 2018 - AUG 2018

- Developed a web application to remotely manage Final Year Projects.
- Designed entity relationship diagram for software database.
- Led backend development and worked in a cross functional team over GitHub.
- Tools: ASP.Net MVC, MS SQL, Razor Html, Bootstrap3, GitHub.

COMPPEC19

FEB 2019 - APR 2019

- Appointed as Director web and IT student body.
- Developed website from scratch, with all new UI and backend code.
- Tools: PHP, Html, Bootstrap4, GitHub.

Final Year Project

Developed dashboards for hospitals in ReactJS to register and monitor Covid-19 Patients. An android app for patient's tracking using geo fencing technique.

Semester Projects

Developers Portfolio Webpage

MAY 2019

Created an open source portfolio webpage using Reactjs and GitHub APIs hosted over GitHub pages. Entire project was kept easy to configure and edit. Over 150 people are using it.

Antenna Placement Problem

NOV 2019

Genetic Algorithm based python script that places 5 antennas (a, b, c, d, e) on a 6x6 grid in such a way that maximum area is covered by their signals.

Polygon Classifier

MAY 2019

Python Script that classifies the polygon shape objects in the image, using k-nearest neighbors (KNN) algorithm and blob analysis technique.

Cloud Based Client/Server Application

JAN 2019

Local cloud based client/server application using socket programming in C . Multiple clients can connect to the server and they can save and retrieve any type of file.

File Browser And Search Engine

JAN 2018

GUI based software in C++ similar to "file explore" with word and file searching and path traversing functionality. Features were implemented by using the concepts of Hash table and Linked lists.

RSA Encryption Algorithm

JAN 2018

Implemented key generation, encryption and decryption functions in C#, to write an RSA Algorithm.

Leadership

RiseTech | Vice President Student Body

2019 - 2020

- Organised informative sessions and training workshops from IBM, Microsoft and Telenor for engineering students.
- Collaborated with Google developers club and Microsoft learn student ambassador to double the growth of community.
- Hosted localhost workshops on Git, Github and python which was backed by Major League Hacking.
- Organized community building and networking opportunities for the social and professional development for students.
- Appointed as Google Developers Club's technical lead later.

Skills

Programming Languages: C++, C#, Python, javascript, Dart, Flutter.

Web Development: Html, CSS, Bootstrap, ReactJS, NodeJS.

Database Management System: SQL, MySQL, MongoDB.

Tools: Git, GitHub, Bitbucket.

General: OOP, Data Structure, Computer Network, Machine Learning, Digital Image Processing, Digital Signal Processing