

# 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 and machine learning.

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## Education

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

<b>RiseTech, Islamabad</b>	JUL 2018 - AUG 2018
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- 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.

<b>COMPPEC19</b>	FEB 2019 - APR 2019
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- 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.

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## Semester Projects

<b>Developers Portfolio Webpage</b>	MAY 2019
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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 100 people are using it.

<b>Antenna Placement Problem</b>	NOV 2019
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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.

<b>Polygon Classifier</b>	MAY 2019
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Python Script that classifies the polygon shape objects in the image, using k-nearest neighbors (KNN) algorithm and blob analysis technique.

<b>Cloud Based Client/Server Application</b>	JAN 2019
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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.

<b>File Browser And Search Engine</b>	JAN 2018
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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.

<b>RSA Encryption Algorithm</b>	JAN 2018
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Implemented key generation, encryption and decryption functions in C#, to write an RSA Algorithm.

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## Leadership

<b>RiseTech   Vice President Student Body</b>	2019 - 2020
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- 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.

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## 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