

Muhammad Noman Akhtar

Education

- **Bachelor of Science in Computer Science.** *(3.7/4.00)*
PMAS Arid Agriculture University, Rawalpindi. *(2019-23)*
Majors: Web Development and Artificial Intelligence.
 - **FSc Pre-Engineering.** *(881/1100)*
F-G Quaid-e-Azam Degree College, Rawalpindi. *(2017-19)*
Majors: Physics, Chemistry, and Mathematics.
 - **Matriculation** *(934/1050)*
F-G Quaid-e-Azam Public School, Rawalpindi. *(2007-17)*
Majors: Computer Science, Mathematics, Physics, and Chemistry.
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Technical Skills

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|---------------------------------|-----------------|----------------------------|---------------|
| • JavaScript | • ES6 | • Node.js | • Express |
| • MongoDB | • MySQL | • Python | • Java |
| • C++ | • C# | • PHP | • GitHub |
| • Git | • HTML | • CSS | • Bootstrap |
| • VS Code | • Visual Studio | • Android Studio | • Spyder |
| • Eclipse | • VMware | • PyCharm | • Notepad++ |
| • Android Apps with Java | | • CLI in Windows and Linux | |
| • Desktop Apps with Java and C# | | • XPath | • Illustrator |
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Certification

- **JavaScript Algorithms and Data Structures** *(freeCodeCamp)*
This course has truly helped me to understand the JavaScript. I've learned almost all the features of JavaScript starting from ECMAScript to Regex and Objects. In this course, I've solved over 300 JavaScript-related problems and built 5 mini projects which helped me to understand the pros and cons of JavaScript.

Certificate: freecodecamp.org/certification/muhammad-noman001/javascript-algorithms-and-data-structures

Achievements

- **Speed Programming** *(Winner)*
A programming contest took place at PMAS Arid Agriculture University, Rawalpindi as a part of an IT Expo on 5th January, 2023. Students of multiple universities participated. It was a 2-hour long programming contest which was finished by me and my team member in 30mins while passing all the test cases.
 - **Fully Funded Under Graduate Scholarship** *(2019-23)*
PMAS Arid Agriculture University under the supervision of the Government of Pakistan awarded me a fully funded merit-based scholarship that bears all my tuition fees and pays me a yearly stipend.
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Final Year Project

- **Deep Fake Detector**
We are developing a web extension that will detect Deep Fakes (Indistinguishable fake footage created with the help of AI). It will operate on social media platforms such as Facebook, Instagram, and Twitter. Our project aims to deal with the dangers caused by this AI technique (such as harassment and fraudulent news) and to improve the transparency of the content over social media.

This project is being developed with Node.js (backend), Python (video processing), and other necessary web technologies.

Almost 50% of the work has been completed and we are confident to finish this project by April, 2023.

Personal Projects

- **Path Visualizer and Optimal Path Finder Using AI Search Techniques**
This GUI application helps the user to find the shortest path b/w two nodes. A user can place two nodes on a 2-D grid and can also place in some barriers b/w the nodes and the system will find the shortest path using AI.
This project was implemented in Python.
- **Distribution Tree**
This project is a custom Tree data structure. It follows a rule where a parent can have many children but those children can't have more than 2 children.
This project was implemented in C++.

- **Game-X-Change**

Game-X-Change is a web application which provides free games to the users. Only registered users can make a download request so that fake download requests can be avoided to improve the server response.

This project was implemented in HTML, CSS, JS, Bootstrap, PHP, and MySQL.

- **Parking Automation System**

It is a Desktop and Web Application which automates the hectic vehicle registration and parking system of Arid Agriculture University. Students can register their vehicle through a web page and security staff can validate vehicle's data, approve or deny a student's registration request and can make complaints against any violation. This system not only saves the time of students but also ensures the security of campus.

This project was implemented in Java, HTML, CSS, JS, PHP and MySQL.

- **Peace Keeper**

It is a Discord chatbot that can play music in the server. It can add/remove members to and from the server. Detect, warn, and kick people who are spamming or using inappropriate words in the server.

This project was implemented in Python.

- **Infrastructure Model for Startups**

This project sets up the IT infrastructure for a Startup. All the networking, device configurations, and cost estimations have been done as per the end of year 2022.

This project was implemented in CISCO Packet Tracer.

Personal Information

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