

SANA ULLAH



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Date of Birth: 19 February 1987 | **NIC:** 1570245912375

Marital Status: Married

Professional Summary

Experienced IT educator and developer with over a decade of professional work in teaching, web development, and IoT-based systems. Holding an M.Phil in Computer Science, I possess strong hands-on expertise in PHP, Bootstrap, and real-time IoT solutions, including fuel monitoring systems. Since 2017, I have been serving as an IT teacher in the KPESE department, following four years of experience as an ad-hoc lecturer (2013–2017). Alongside teaching, I also create technical content and develop practical research-driven projects that bridge academic knowledge with real-world applications. I am now seeking academic or industry opportunities such as teaching, research, PhD studies, or R&D positions where I can contribute through my technical skills, research interests, and extensive teaching experience.

Education

- **M.Phil in Computer Science**, University of Malakand — 2025
- **M.Sc. in Computer Science**, University of Peshawar — 2012
- **B.Sc. in Computer Science**, University of Malakand — 2010

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| • F.Sc. (Pre-Engineering) , BISE Malakand — 2007 |
| • SSC , BISE Malakand — 2005 |

Professional Education

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| • M.ED AIOU Islamabad — 2019 |
| • B.ED AIOU Islamabad — 2018 |

Certifications & Training

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| • Coursera (University of London) : Professional Certificate in <i>Cyber Security</i> . Completed 2023. |
| • IBM Institute : Certification in <i>3D Modeling & Virtual Reality</i> . 2023. |
| • Various short courses and self-directed training in web development, PHP, Bootstrap, MySQL, and IoT systems. |
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Teaching Experience

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| • IT Teacher — KPESE Department , (2017 – Present) <ul style="list-style-type: none"> ○ Deliver lectures and practical labs for computer science and IT subjects. ○ Develop curriculum-aligned course materials, assessments and practical assignments. |
| • Adhoc Lecturer (Computer Science), (2013 – 2017) <ul style="list-style-type: none"> ○ Taught undergraduate courses, including programming, web development and database systems ○ Supervise student projects and provide mentorship for final year research work. |
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Technical Skills

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| • Languages & Web: PHP, HTML5, CSS3, JavaScript, Bootstrap, MySQL |
| • Programming & Tools: C, C#, Java (basics), Arduino IDE (C/C++), ESP32 |
| • IoT & Hardware: Ultrasonic sensors (HC-SR04), Accelerometers, Pressure sensors, Flow sensors, ESPWROOM-32, Arduino Uno |
| • Computer Networking: Basic Computer Networking and different type of the topologies installation |
| • Other: 3D modeling & VR concepts (IBM certification), content writing for technical documentation, Git (basic) |

Selected Projects

- **IoT-based Real-time Fuel Monitoring System (M.Phil, Final Project)**

- Designed and implemented a fuel monitoring system using ultrasonic sensors and accelerometers with ESP32 microcontroller.
- Improved measurement accuracy by combining sensor fusion and pressure-sensor-based deformation detection; designed firmware and Android monitoring app for real-time data visualization and alerts.
- Resulted in a portable prototype intended for commercialization and further R&D.

- **Dynamics — Online Bookshop Website**

- Full-stack web application for online book shopping (PHP, MySQL, Bootstrap).
- Implemented product management, shopping cart, and secure user authentication.

- **Freelance Development & Content Writing (2012 – Present)**

- Delivered small-to-medium web projects for local clients and produced project documentation, user guides, and technical content.

Professional Strengths

- Strong classroom and lab teaching experience
- Able to translate research ideas into working prototypes
- Clear technical writing and project documentation skills
- Comfortable supervising student projects and mentoring

Languages

- Urdu (native)
- English (fluent)
- Pashto (fluent)

References

Available on request.