

# SANA ULLAH



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<b>Date of Birth:</b>	19 February 1987   NIC: 1570245912375
<b>Marital Status:</b>	Married

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## 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.

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## Education

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| • <b>M.Phil in Computer Science</b> , University of Malakand — 2025 |
| • <b>M.Sc. in Computer Science</b> , University of Peshawar — 2012  |
| • <b>B.Sc. in Computer Science</b> , University of Malakand — 2010  |

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

## Professional Education

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| • <b>M.ED</b> AIOU Islamabad — 2019 |
| • <b>B.ED</b> AIOU Islamabad — 2018 |

## Certifications & Training

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

## Teaching Experience

- **IT Teacher — KPESE Department**, (2017 – Present)
 

○ 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)
 

○ Taught undergraduate courses, including programming, web development and database systems
○ Supervise student projects and provide mentorship for final year research work.

## Technical Skills

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

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## Selected Projects

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

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| ○ 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**

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| ○ 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)**

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

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| • 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   |
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## Languages

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| • Urdu (native)    |
| • English (fluent) |
| • Pashto (fluent)  |
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## References

Available on request.
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