

Muhammad Najaf

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Professional Summary:

Highly experienced educator and IT professional with expertise in teaching programming, software development, and academic research. Adept at developing web and mobile applications using modern technologies, with a strong background in machine learning research. Passionate about problem-solving, curriculum development, and delivering high-quality educational content.

Current Position:

Lecturer – Department of Software Engineering -UOL (since April 2024)

My major Responsibilities are:

- Teaching Mobile Application Development using Flutter a latest mobile app framework developed by Google.
- Member of Final Year Project Committee to supervise, coordinate and evaluate final year projects of the BSSE students.
- Member of admission committee.

Employment History:

Lecturer: (Visiting) at University of Central Punjab, Main Campus. (2022-23)

Taught Object-oriented programming and databases.

Lecturer: (2023-24) at Beacon house International College. My JD's were:

Taught programming languages including Python, C++, and JavaScript to undergraduate students. Provided in-depth instruction on web development using Laravel and React.js. Supervised final-year projects related to machine learning, data science, and software development. Guided students in structuring research assignments, reports, and dissertations. Delivered courses on object-oriented programming (OOP) and database management systems.

Lecturer: (Oct 2017 - Feb 2021) at The University of Faisalabad. My JD's were:

Taught programming languages including C++, Java and Php to undergraduate students. Provided in-depth instruction on web development using Laravel and React.js. Supervised final-year projects related to machine learning, data science, and software development. Guided students in structuring research assignments, reports, and dissertations. Delivered courses on object-oriented programming (OOP) and database management systems.

Lecturer: (2014-2017) at Punjab College, Faisalabad.

Duties: Teach Computer Science and Programming to Intermediate students

Lecturer: (Sep 2010 - Sep 2014) at Independent College of Commerce & IT.

Duties: Teach Computer Science and Programming to Intermediate students

Subject Expertise:

- Object Oriented Programming
- Mobile Application Development using Flutter.
- Web Engineering.

Education:

- **MS in Software Engineering | UNIVERSITY of Agriculture, Fsd.**
Feb. 2022 **CGPA: 3.70/4.00**
Area of Research and Thesis: Data Science /ML/Image Processing
- **M.Sc in Computer Sciences | UNIVERSITY of Agriculture, Fsd.**
Dec. 2011 **CGPA: 3.34/4.00**
- **M.Sc in Physics (Electronics) | UNIVERSITY of Agriculture, Fsd.**
Nov. 2005 **CGPA: 3.70/4.00**
- **B.Sc in Mathematics | UNIVERSITY Of Punjab , Lhr.**
Sept. 2003
- **F.Sc. Pre_ Engineering | BISE, FSD.**
August. 2001
- **Matriculation with Science Group | BISE, Fsd.**
August. 1999, 1st Div.

Teaching /Academic Skills:

- Highly experienced in teaching.
- Familiar with using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions, and approaches to problems.
- Sound knowledge of understanding written sentences and paragraphs in work-related documents.
- Outstanding knowledge of selecting and using instructional methods and procedures suitable for the situation.
- Deep knowledge of curriculum and instruction.
- Proficient in communicating effectively in writing as appropriate for the needs of the audience.
- Ability to teach computer programming, algorithms, and programming languages.
- Strong knowledge of academic writings such as thesis, report or dissertations.

IT Skills:

- C++, Java.
- HTML5,CSS, JavaScript.
- Core Php & Laravel (MVC) Framework
- React & Node Js development.
- **Mobile Application Development using Flutter**

Area of Research:

"My research expertise lies in image prediction and classification, leveraging advanced machine learning techniques such as CNN, RCNN, and LSTM. My primary area of interest is predictive modeling, focusing on designing and implementing intelligent systems to analyze and forecast data trends effectively."

Publications:

Google Scholar Link: <https://scholar.google.com/citations?user=cLEaqZ8AAAAJ&hl=en>

IT Industry Experience:

Job Role: Web Developer -09/2018 to 05/2024

Company: System Solutions & Edify IT Group.

Key Responsibilities:

- Cooperate with designers to create clean interfaces and simple, intuitive interactions and experiences.
- Develop project concepts and maintain optimal workflow.
- Work with senior developer to manage large, complex design projects for corporate clients.
- Complete detailed programming and development tasks for front end public and internal websites as well as challenging back-end server code.
- Carry out quality assurance tests to discover errors and optimize usability.

Market Oriented Professional Projects:

- Pharmacy and PoS system using Core PHP & laravel framework.
- ERP Web based system using PHP and XAMPP Server.

Other Soft Skills:

- **Assignment and Report Structuring:** Expertise in guiding students through assignment structuring, ensuring that they can present programming and data science concepts in a clear, concise manner that aligns with UK educational standards.
- **Critical Analysis and Problem-Solving:** Skilled at helping students develop analytical thinking for programming, data science, and web development projects. This involves dissecting problems, proposing solutions, and refining code or data approaches.
- **Effective Communication of Technical Concepts:** Ability to explain complex programming algorithms, data mining methods, and machine learning models in a way that's accessible, whether through written assignments, reports, or presentations.

- **Transnational Education Adaptability:** Skilled in adjusting teaching approaches for diverse international students, understanding the challenges they face in adapting to UK standards in technical and research-focused assignments.
- **Admission Management and Marketing Planning:** In my previous worked intuitions I had worked as admission officer and marketing campaign in charge to ranked up and boost the admission engagement.
- **Data Presentation and Visualization:** Expertise in guiding students on visual data representation techniques for assignments, including creating graphs, charts, and dashboards for data science and web development projects.