Muhammad Ahmad

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Professional Summary

Experienced Computer Science professional with expertise in AWS cloud technologies and programming. Passionate educator with hands-on teaching experience in **Data Structures**, **Cloud Computing**, and **Computer Networks**. Recognized as a **Gold Medalist** and Vice Chancellor's Honour List achiever. Skilled in mentoring students through FYPs, competitive programming, and real-world projects.

Work Experience

Lecturer — Riphah International University, Lahore Feb 2026 – Present

- Course development and delivery for courses including Problem Solving, Distributed & Cloud Computing, Computer Networks, Data Structures, and Programming Fundamentals.
- FYPs Supervision & Mentoring
- Currently doing research in the areas of "Cloud computing and blockchain"
  - "DevOps Integration in Agile Software Development: Challenges and Benefits in the Context of Software Industry in Pakistan" – *Innovative Computing Review, 2026* (Published)
  - "Self-Sovereign Identity in Decentralized Federated Identity Management: A Framework for Secure and Scalable Access Control" – *Web Intelligence, 2025* (In process)

Lab Engineer — Riphah International University, Lahore Sep 2023 – Jan 2026

- Conducted hands-on lab sessions for courses including Problem Solving, Distributed & Cloud Computing, Advanced Computer Programming, Computer Networks, Data Structures, and Programming Fundamentals.
- Developed and updated lab manuals, code samples, and tutorials to enhance student learning.
- Serving roles:
  - Manager Alumni Relations
  - Course Folder Auditor
  - Core Team Member — RC3

Intern — Cubic Solutions Inc. Feb 2018 – Aug 2018

- Worked on ASP.NET MVC based applications.
- Prepared system manuals and user handbooks.
- Performed basic SEO tasks.

Web Development Internee — Encoder-Tech (Wise College, Lahore) Oct 2018 – Apr 2019

- Designed and developed responsive websites.

Science Teacher — Achiever's Academy Dec 2015 – Jan 2017

- Taught Physics, Chemistry, and Mathematics at Matriculation and Intermediate levels.

Publications

- "DevOps Integration in Agile Software Development: Challenges and Benefits in the Context of Software Industry in Pakistan" – *Innovative Computing Review, 2026* (Published)
  `https://journals.umt.edu.pk/index.php/icr/article/view/7928/3950`
- "Self-Sovereign Identity in Decentralized Federated Identity Management: A Framework for Secure and Scalable Access Control" – *Web Intelligence, 2025* (In process)

Certifications

- AWS Certified Cloud Practitioner — AWS
- AWS Cloud Foundations — AWS Academy Graduate
- AWS Academy Cloud Architecting — AWS Academy Graduate
- Web Development — Punjab Board of Technical Education, Lahore
- Blockchain Basics — University at Buffalo (Coursera)

Education

Master of Science in Information Technology Sep 2023 – Feb 2026
Riphah International University, Raiwind Road, Lahore

Bachelor of Science in Computer Science Sep 2019 – Jun 2023
Riphah International University, Raiwind Road, Lahore

Achievements

- Gold Medalist (Graduation)
- Vice-Chancellor and Dean's Honour List for consecutive last three semesters
- Completed BS and MS on full merit scholarship