

Muhammad Javed Ramzan

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EDUCATION

COMSATS University Islamabad **Islamabad, Pakistan**
Master of Science in Computer Science 09/2018 - 02/2021

Major Courses: Machine Learning, Advanced Topics in Artificial Intelligence, Advanced Algorithms Analysis, Theory of Computation, Advanced Topics in Algorithmic Game Theory, Dealing with Big Data

COMSATS University Islamabad **Wah Cantt, Pakistan**
Bachelor of Science in Software Engineering 09/2014 - 07/2018

Major Courses: Human-Computer Interaction, Artificial Intelligence, Data Mining, Introduction to Programming, Object-oriented Programming, Algorithms and Data Structure, Database Systems, Software Engineering, Software Construction, Software Design and Architecture, Data warehousing

EXPERIENCE

ISU XR LAB, Istinye University Istanbul **Istanbul, Turkey**
Research Assistant 06/2023 - Present

- Conduct advanced research in XR and VR technologies, focusing on immersive experiences and haptic feedback
- Develop interactive XR applications using Unity and C#
- Hands-on experience with Oculus Quest 3, HTC Vive, and other haptic devices
- Writing conference, journal articles, and grant proposals

Digital Game Design Department, Istinye University Istanbul **Istanbul, Turkey**
Instructor (Part-time) 09/2023 - 09/2024

- Teach programming and game development courses, including Python, Unity, and C#
- Graded assignments and exams, providing constructive feedback

Department of Computer Science, Government College University Faisalabad, **Layyah, Pakistan**
Lecturer 03/2021 - 06/2023

- Taught programming and AI courses, including Python, C++, and OOP
- Graded assignments and exams, providing constructive feedback

PROJECTS

ISU XR LAB **Istanbul, Turkey**
Wind Simulation in VR 2023 - 2024

- Built immersive forest environment using Unity 3d for headsets including Oculus Rift S and HTC Vive, and Pro
- Built immersive city environment using Unity 3d for Oculus Rift S
- 3D city environment in Blender for wind simulation.
- Integrated environmental effects and real-time physics simulation

Hospital VR Environment 2024

- Built Hospital environment using Unity 3d for Oculus Rift S, Oculus Quest 2
- Built MRI Room with 3D realistic MRI machine.
- Integrated an interactive 3D heart model from 3D Slicer

A variety of other games, VR experiences, and data visualization projects are showcased in the projects section of my [webpage](#).

TECHNICAL SKILLS

Technical Tools: Unity, Arduino, Jupyter Notebook, MS Office (Excel, PowerPoint, Word), SPSS and TeXstudio/Overleaf

Programming Languages: C#, Python, C++

XR/VR Platforms: Oculus Rift S, Quest 2, Quest 3, HTC Vive and Vive Pro

3D Modeling: Blender

Hardware: Manus Prime X Haptic VR, NodeMCU, SIM900A, Ultrasonic Sensors

Data Visualization: Looker Studio, Flourish Studio

XR/VR/AR Libraries: WebXR, StreamVR, Meta XR SDK for unity

Cloud Libraries: Google Firebase

PUBLICATIONS

- Enhancing Presence in Virtual Reality Environments Through Wind Simulation and Immersive Sound Effects
Muhammad Javed Ramzan, Zeynep Burcu Kaya Alpan, Şenol Pişkin
25th Eurosis GameOn 2024 Istanbul, Türkiye. Scopus Indexed Conference
- Impact of Physical Wind Simulation on the Player [Conference]
Zeynep Burcu Kaya Alpan, **Muhammad Javed Ramzan**, Alperen Şatıroğlu, Şenol Pişkin
IEEE GEM 2024 Turin (Torino), Italy, Scopus Indexed Conference

Other Publications: Published three Q1 journal articles and one Q2 journal article and a patent under registration for a haptic suit. [Google Scholar](#) [ResearchGate](#)

HONOURS AND AWARDS

- Received the TÜBİTAK 2250 Performance Award (2023, 2024)
- Selected for TUBITAK Project 121E732 (2023)
- Best Paper Nominee, GAME-ON 2024
- Article APC Grant from MiRRORS, Netherlands (2020)
- Master's degree Scholarship, Punjab Benevolent Fund, Pakistan (2019)

CERTIFICATIONS

- Elsevier Certified Peer Reviewer (2021)
- UI/UX and Design Thinking, Great Learning Academy (2022)
- Programming for Everybody (Python), University of Michigan (2020)
- Introduction to Data Science, Udemy (2019)
- Android Application Development Workshop, HEC Pakistan (2017)

COMMUNICATION AND INTERPERSONAL SKILLS

Transferable skills

Teamwork & leadership skills, Management skills, Time management, handling pressure, Maximizing productivity, Scientific integrity

Scientific communication

Scientific writing, oral presentation skills, poster communication, creative tools in scientific writing.

Collaborative skills

Collaboration for research, Ideas sharing, Result sharing

LANGUAGE

English (B2 Proficiency), Urdu (Native Speaker), Turkish (A1 Proficiency)

HOBBIES AND INTERESTS

Hiking, Mentoring, Solving Puzzles, Reading Tech Blogs, Traveling

RECOMMENDATIONS

Reference available upon request