Md Mustafizur Rahman

Github | Linkedin Profile
mustafizur.cd@gmail.com | Mobile: +8109075127564 |

EDUCATION

NARA INSTITUTE OF SCIENCE AND TECHNOLOGY, JAPAN

Master of Engineering in Information Science

Interactive Media Design Laboratory
Takayama-cho | Ikoma, Nara, Japan
CGPA: 3.54 / 4.0
Expected Graduation Date: 09/2025

UNIVERSITY OF RAJSHAHI

B.Sc. in Information and Communication Engineering

Faculty of Engineering
Rajshahi-6205 | Bangladesh
CGPA: 3.55 / 4.0

COURSEWORK

MASTER'S & UNDERGRADUATE

Visual Media Processing
Software Systems Development
Natural Language Processing
Social Computing
Systems Resource Management
Hardware Security
Human Information Processing
Artificial Intelligence and Neural Computing
Computer Networks
Software Engineering
Fundamentals of Cryptography
Database Management System
Computer Architecture and Organization
Java and Network Programming
Digital Communication
Digital Image Processing
Data Structure

SKILLS

PROGRAMMING

Java • C# • Python • JavaScript • Matlab • C Programming
Web Programming Languages:
PHP • LARAVEL • LARAVEL REST-API • MySQL • HTML • CSS
Tools & Frameworks:
Unity3D Engine • Arduino • Jira •Git
Testing Tools:
Selenium • Appium • Cucumber • TestNG/JUnit • Rest Assured API Testing•Postman • Performance Testing with Apache Jmeter

EXPERIENCE

TALENT PRO | SOFTWARE QUALITY ASSURANCE ENGINEER |Team Lead

June 2022 – August 2023 | 109 MASJID ROAD, OLD DOHS, BANANI, DHAKA – 1206, BANGLADESH.

- To Write Test Plan, Test Cases, Designing Automation Test Script, Reviewing Test Cases, Test Execution Result Analysis.
- Proficiency with Appium, Selenium Web Driver, TestNG, Cucumber, Java-based Automation Frameworks (TDD, BDD).
- REST Assured, GraphQL - API Testing, Performance Testing, Security Testing, Database Testing .

RESEARCH AND PROJECTS

EXPERIENCE AUGMENTATION IN PHYSICAL THERAPY BY SIMULATING PATIENT-SPECIFIC WALKING MOTIONS

| Master's Research | Generative AI, Python, FastAPI, C#, Unity3D, Blender Python API

June 2024 – Present | NARA INSTITUTE OF SCIENCE AND TECHNOLOGY

Developed an AR-based simulator using generative AI to create real-time, patient specific 3D walking simulations, enhancing physical therapy training through immersive, interactive learning.The study was conducted under the supervision of **Prof. Hirokazu Kato** & **Goshiro Yamamoto**. [Demo Video Link]

AUGMENTED REALITY AS A SUPPORT TOOL FOR MOTOR REHABILITATION | Master's Research | C#, Unity3D, Laravel-API

October 2024 – May 2024 | NARA INSTITUTE OF SCIENCE AND TECHNOLOGY

In this research, AR is suggested as a tool that therapists might use to aid in motor rehabilitation.The study was conducted under the supervision of **Prof. Hirokazu Kato**.
[Demo Video Link] [Project Git Link]

VIRTUAL REALITY BASED MEDICAL TRAINING SIMULATOR AND ROBOTIC OPERATION SYSTEM | Undergraduate Research | C#, Unity3D

March 2020 – March 2022 | University of Rajshahi

Worked with **Dr. Md. Emdadul Haque** and **Md. Tanvir Hossain** to develop **Plan**, a tool Heal OVR is to provide health services, especially medical surgery treatments to remote people via a combination of Virtual Reality and Internet of Thing technology.
[DOI: 10.1109/ICRPSET57982.2022.10188546]

AWARDS

Year	Award	Detail
2023-2025	Monbukagakusho: MEXT	Japanese Government Scholarship
2023	Tech Genius Awards	TalentPro **Team Lead**
2019	1st Runner up	BUET Winter School **HACKATHON**
2019	1st Runner up	LICT-JOB Fair Project Showcasing

TRAINING COURSES

Year	Period	Course
2019	FEBRUARY – APRIL	MOBILE GAME & APPLICATION COURSE
2019	MAY- JUNE	AR, VR, MR TECHNOLOGY COURSE
2020	JANUARY-FEBRUARY	SKILL DEVELOPMENT FOR ARDUINO & ROBOTICS

PUBLICATIONS

[1] M. M. Rahman, M. F. Ishmam, M. T. Hossain, and M. E. Haque. Virtual reality based medical training simulator and robotic operation system. In *2022 International Conference on Recent Progresses in Science, Engineering and Technology (ICRPSET)*, pages 1–4. IEEE, 2022.