

Rayhan M R

+44 0777-601-3083 | rayhan.mohammadriyaz@gmail.com | [linkedin.com/in/rayhan-phy](https://www.linkedin.com/in/rayhan-phy) | Harrow, London

PERSONAL DETAILS

- Incoming MMathPhys undergraduate with certificates in theoretical and mathematical physics, and experience in AI, robotics, game dev, and Arduino mentorship
- Active in community service—food banks, disability support, and international representation
- Fluent in 4 languages, I seek research internships and hospitality roles that merge science with social impact

EXPERIENCE

Food Provision Center Volunteer and Newcomer Guide

2023 – 2025

Second Harvest Japan

Tokyo, JP

- Consistently volunteered exceeding expectations for 75+ hours
- Assisted throughout the entire procedural-flow at Asakusabashi: Warehouse Management, Food Sorting, Food Packing, Pantry Pickup, Pantry Receptionist
- Chosen as primary Pantry Language Translator (English-Japanese)
- Interacted with visitors with an amiable personality; Chosen to be the Pantry Customer Assistant 7/10 times

Volunteer

2023 – 2025

HandsOnTokyo (Helps children with autism and geographically-displaced evacuees)

Tokyo, JP

- Prepared 30+ children for competitive cheerleading (Unified Sports, Special Olympics)
- Supported children with intellectual disabilities through dance, exercise and games motor development (Special Olympics Motor Development Program)
- Acted as dance assistant for 25+ children/teenagers with autism (*Smile Laboratory*)
- Publicized and operated 2 booths at Lives Tokyo 2023 to ~200 ppl and introduced it to ~30 families with sales skills; Assisted the visitors to the event and facilitated smooth flow of talks/events
- Improved Ukraine evacuees' English skill to A1 level with well-designed syllabus (AYUMO Project)

AISC Global Ambassador for Japan

2025 – Present

Intel Corporation (AISC)

Hybrid

EDUCATION & TEST SCORES

CBSE Class XII: 99% (Maths/English/Physics/Chemistry/CS National Topper)

May. 2025

[A-Levels Equivalent] India International School in Japan

Tokyo, JP

Digital SAT: 1540

Oct. 2024

800 Math + 740 English

IELTS: 8.5/9

Sept. 2024

HONORS

Winner: India AI Impact Festival 2024 | *AI/ML, Accessibility, Python*

Intel/CBSE, 2024

Best Delegate: International MUN | *Leadership, Debate, Public Speaking*

IMUN, 2024

High Honor Roll (Grades 9, 10, 11, 12) | *Academic Proficiency*

IISJ, 2021-25

SKILLS

Languages: English(Native), Hindi (Business), Japanese(N4), Malayalam(Native)

Soft Skills | *Qualities, Adjectives*

- People Skills: Leadership, Eloquent Speaker
- Learning Habits: Quick Self-Learner, Curious, Critical Thinking
- Attitude: Motivated, Passionate, Perseverant

Technical Skills

- Languages: Python, C#, LaTeX
- Web-Development: Python, HTML, CSS, Javascript, Flask, Bootstrapping
- Libraries: TTS, Asyncio, GPT-4, Transformers, Stable Diffusion, PyGame, TensorFlow, NumPy, SciPy, Pandas
- IoT: Sensor Management, Raspberry Pi, Motor Specifics, Electric Engineering, Circuit Building, Soldering

PROJECTS

- School Management System** | *Python Flask, SQLite3 Database, Web-Integration* Nov. 2024
- Developed Admin/Teacher/Student Portals with built-in querying, Announcement System (Public/Private), Homework Portal (Teacher/Student), and Marks Database System
- AI Educational Video Generator (Just Imagine It!)** | *Python, Transformers, Public Speaking* Jul. 2024
- Co-creator an AI-based textbook to short bite-sized video generator for today's low attention span society and accesible affordable learning
 - Creatively used Multi-Head Attention Transformers and OCR to efficiently convert PDFs to videos
 - Hosted 3 AI guide-shows(3-hr) for 250+ students
- Disaster Search and Rescue Robot** | *Raspberry Pi, Electrical Engineering, Leadership* Mar. 2024
- Led a team of three and an engineered a robot with extensive usage of 5+ sensors, power-efficient and automated functioning, for search and rescue in disaster-affected regions (*with a focus on Japan earthquakes*)
 - Nominated to present at the Indian Embassy to distinguished Japanese researchers and embassy officials 3+ times
 - Supervised 3+ junior Arduino teams
- 2-D Horror Game (Ghostbound)** | *Datastructures and Algorithm, GameDev, Leadership* Dec. 2023
- Lead Programmer and Concept Innovator of Pokemon-styled Game with engaging action, complex mathematical modelling, weapons, economy system, ghost enemy AI and optimizations algorithms.

RESEARCH PAPERS

- Theoretical Construct for Spatial Human Comfort** | *Applied Mathematics, Psychology, Pre-print* Jul., 2024
- Mathematically modelled overall numeric comfort of an individual in an $n(3)$ -dimensional space by relating spatial points assoiated with high comfort and desirable (psychological and geometric) factors

CERTIFICATIONS

- Physics** | *Theoretical Physics, Mathematics* Coursera, 2024
- University of Geneva: Particle Physics
 - University of Colorado Boulder: Condensed Matter Physics [Phases of Matter, Universal Theories]
 - University of Maryland: Quantum Mechanics
 - Rice University: Physics 101
- Economics** | *Narrative Analysis, Meta-analysis* Coursera, 2024
- Yale University: Narrative Economics