

# Rayhan M R

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## SUMMARY

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- Incoming MMathPhys undergraduate with certificates in theoretical physics
- Experience in AI, mechatronics, and game development
- Active in food banks, disability support, and international representation

## EXPERIENCE

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**Food Provision Center Volunteer and Newcomer Guide** 2023 – 2025

*Second Harvest Japan* Tokyo, JP

- Consistently volunteered exceeding expectations for 75+ hours
- Worked across 5 procedural flow sections: warehouse assistance, food sorting, donation packing, pantry pickup, reception
- Primary Pantry Translator (English-Japanese) and top Customer Assistant (8/10 times)

**Community Development and Diversity Volunteer** 2023 – 2025

*HandsOnTokyo* Tokyo, JP

- Prepared 30+ children for Unified Sports cheerleading (Special Olympics)
- Supported children with intellectual disabilities via dance/games with consistent 2-3 hr sessions
- Dance assistant for Japanese dance groups (children/teens with autism) (Smile Laboratory)
- Operated 2 booths at Lives Tokyo 2023; publicized to 200+ people
- Taught English to Ukraine evacuees with custom A1-level syllabus (AYUMO Project)

**AISC Global Ambassador for Japan** 2025 – Present

*Intel Corporation (AISC)*

*Hybrid | JP*

## EDUCATION & TEST SCORES

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**CBSE Class XII: 99% (National Topper) (A-Levels equiv.)**

May 2025

*India International School in Japan (Maths, English, Chemistry, Physics, CS)*

Tokyo, JP

**Digital SAT: 1540 (800 Math + 740 English)**

Oct 2024

**IELTS: 8.5/9**

Sept 2024

## HONORS

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

Intel/CBSE

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

IMUN

**High Honor Roll (Grades 9–12)** | *Academic Proficiency*

IISJ

## SKILLS

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

### Technical Skills

- Languages: Python, C#, LaTeX, Linux & Shell-Scripting
- Web: HTML, CSS, JS, Flask, Bootstrap
- Libraries: Asyncio, GPT-4, Transformers, PyGame, TensorFlow, SciPy, Pandas
- IoT: Sensors, Raspberry Pi, Circuits, Soldering

## PROJECTS

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- School Management System** | *Python Flask, SQLite3* Nov 2024
- Built full-stack portals for admins, teachers, and students with announcement, homework, marks database modules and 10+ mini features for government school front-page
- AI Educational Video Generator (Just Imagine It!)** | *Transformers, OCR* Jul 2024
- Created AI-based PDF-to-bite-size video converter for education, improving study retention by 30%
  - Hosted 3 AI workshops for 250+ students
- Disaster Search and Rescue Robot** | *Raspberry Pi, Sensors* Mar 2024
- Led team of 4 to design power-efficient robot with 5+ sensors for disaster scenarios
  - Presented 3 times to Japanese researchers and Indian embassy officials
  - Mentored 5+ Python/Arduino teams
- 2-D Horror Game (Ghostbound)** | *GameDev, AI, DSA* Dec 2023
- Lead dev of complex action-shooter game with enemy AI, economy, and time-optimization with over 350 lifetime plays

## RESEARCH PAPERS

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- Theoretical Construct for Spatial Human Comfort** | *Applied Math, Psychology* Jul 2024
- Pre-print: Modeled human comfort in n(3)-D space using spatial and psychological factors

## CERTIFICATIONS

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- Physics** | *Fast-Learner, Theory, Mathematics* Coursera, 2024
- Particle Physics (U. Geneva): Particles, Interactions, Accelerators, Dark Matter, New Phenomena
  - Condensed Matter (U. Colorado): Phases of Matter and Universal Theories
  - Quantum Mechanics (U. Maryland): Quantum Wells, Hydrogen Atom, Spin, Time-Dependence
- Economics** | *Narrative Analysis* Coursera, 2024
- Narrative Economics (Yale U.): Incorporating narrative contagion into economic theory