

Muhammed Ihsan Hashim

CONTACT

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EXPERIENCE

Independent Full-Stack & Systems Software Developer | 2022 – Present

- Built full-stack web applications using React and Svelte on the frontend with Express/Django backends, including REST APIs and real-time features.
- Developed **Inside-Earth**, an interactive realtime globe activity visualizer which won a NASA Space Apps Global Nomination in 2024.
- Created **tinycss**, a CSS framework adopted by the popular React engine million.js.
- Designed and implemented a low-level game engine in Rust using WebGPU, handling custom graphics, physics, and memory management for desktop.
- Wrote a complete lexer, AST parser, and interpreter for a high-level programming language I designed called luz, in C++.
- Developed secure, high-concurrency server applications in Rust (using Tokio & Axum) to power multiple full-stack web platforms.
- Trained and integrated a Vision Transformer model (CLIP using PyTorch) into a media library application for intelligent photo organization using computer vision.

Co-Founder & CTO | 2025 – Present

Project Endeavor

- Leading the design and integration of hardware systems for a student-led non profit stratospheric weather balloon mission.
 - Designing the payload layout, managing the Raspberry Pi-based microcontroller systems, and integrating sensors and instruments for atmospheric data collection.
 - Developed physics simulation models forecasting weather conditions and radiation levels by altitude, enabling accurate mission planning.
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EDUCATION

Amity School Dubai | 2024–2026

High School Diploma

- GPA 4.0/4.0 – Graduated as Salutatorian with the Highest Rank in the Science Stream.
- Secured 50% scholarship for Grades 11 and 12.
- Head of Delegate Affairs @ AmityMUN '25, Amity's first Interschool MUN.
- Led the student council as Deputy Head Boy.
- Head of Technology and Innovation; brought initiatives incorporating tech in the class.

Gems Our Own High School Dubai | 2022–2024

- Scored above 90% in the AISSE board examination.
 - Perfect 100 score in Mathematics.
 - Founder and President of the Math Club, comprising a batch of 600 students
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SKILLS

Public Speaking, Leadership and Communication

- Participated in and won various Model United Nation conferences and debates.
- Delivered a ted talk at TEDxASDYouth about the importance of curiosity.
- Led the student council where I organized school-wide events.

Creativity and Innovation

- First place in regional coding Competition TechnoConnect.
- Wins in STEM competitions.
- National IOI Finalist (Placed top 10)
- Instrumental Music – Acoustic and fingerstyle guitarist (4 years); pianist since age 7.