

Mohammed Arham Rafi

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Education

GEMS International School, Al Khail
IB Diploma Programme (Predicted: 41/45)

Dubai, U.A.E.
Anticipated Graduation: May 2026

Subjects: Math AA HL, Computer Science HL, English HL, Physics SL, Economics SL, Spanish Ab Initio

University-Level Coursework

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| • Cornell's Pre-College Program – Technology and Business | July 2025 |
| • Harvard - CS50 | June 2025 |
| • Imperial College London - Multivariate Calculus | August 2025 |

Honors & Awards

- **Honor Roll (Top Score)** — Ranked amongst the top-performing Grade 10 Students at GIS with the highest score of 61/63.
- **Canadian Senior Math Competition** — Distinction at University of Waterloo's Senior Math Competition.
- **Beaver Computing Challenge Distinction** — Distinction at University of Waterloo's Beaver Computing Challenge.
- **Senior United Kingdom Math Trust Competition** — Received Gold Medal, Top 8% Percent of all participants.
- **Principal's Academic Merit Scholarship** — Awarded for outstanding academic achievement in the IB Diploma Programme.
- **Science Fair: Best Technical Project** — Recognized for DynaMeter, a sustainable energy-harvesting prototype and research.
- **International Open Karate Championship, Kolkata** — Won kata and kumite championships.
- **Amazon Internship Distinction** — Honored for impactful contributions to e-commerce ML pipelines at Amazon MENA.
- **Premier Genie Internship** — Selected for a competitive AI-focused internship in product design and development.
- **Best Jaguar Tennis Player** — Earned top player recognition after excelling at the GAAC Gulf International Tournament.
- **CAS Award for Excellence** — Distinction for leadership and long-term impact in community service initiatives.

Project Experience

Student Researcher — Dubai Science and Economics Fair Dubai, U.A.E | Dec 2024 – Oct 2025

- Conducted research on harvesting electricity from renewable sources such as the kinetic energy of a bicycle.
- Created a prototype using Arduino, alongside a research paper to present at the Dubai Science Fair.
- Won the best technical project award for showcasing creativity, ingenuity, and clarity when communicating complex technical

Founder — EcoHub.life, a sustainable recycling initiative Dubai, U.A.E | Dec 2024 – Present

- Created a website using HTML, CSS, and NodeJS with a focus on promoting sustainability and recycling.
- Did full-stack development, created blog posts, managed the social media awareness campaign, and connected with NGOs.
- Focused on building an inclusive platform that educates on the importance of recycling and gamifies the learning experience.

Independent Research — Machine Learning for Language Translation of Code-Mixed Languages Remote | Dec 2023 – Oct 2025

- Fine-tuned and compared transformer models (BART, T5, GPT-3) for legal document summarization & translation.
- Conducted evaluative Research using metrics such as ROUGE and F1-score, leveraging Python libraries.

Amazon MENA — Student Intern Dubai, U.A.E. | Jan 2025 – Feb 2025

- Improved ASIN recommendation algorithms by refining the Phi-2 model.
- Designed ML-based query understanding and backend filtering for better product suggestions.
- Developed an end-to-end query-to-product mapping pipeline integrating backend and analytics.

EdRizz — Founder Dubai, U.A.E. | Dec 2023 – Present

- Built an inclusive learning platform to gamify education and support diverse learners.
- Led full-stack development (frontend + backend) and managed product design and marketing.

Pi-Top Robot - Researcher Dubai, U.A.E. | Dec 2023 – Jul 2024

- Performed research on the Pi-Top robots to write code that will optimally allow them to run on mars missions.
- Presented the robot pilot run to Emirati Astronauts Nora AlMatrooshi and Mohammad AlMulla. (featured Khaleej Times)

Subtracc — Founder Dubai, U.A.E. | Dec 2024 – Present

- Created a substitution management app for my school in order to improve the efficiency and practicality of teacher leaves.
- Created a full-stack app using NodeJS, HTML, CSS, and SQLite, with a focus on aesthetics and ease of use.

VerseVault— Founder

Dubai, U.A.E. | Jan 2025 – Present

- Made a web app using HTML, CSS, and JS, alongside SQLite for the backend, that merged my passion for reading and code.
- Wrote unique story structures to add an interactive element, rather than traditional page-by-page progression.

Leadership & Activities

Head of GIS MUN Club

G.I.S. | Jul 2024 – Sep 2025

- Directed club activities across 5 conferences; taught debate and public speaking skills.
- Founded and organized the first GIS International MUN Conference with hundreds of participants.

Head of GIS Computer Science Club

G.I.S. | Jul 2024 – Present

- Taught app development and CS fundamentals through weekly workshops. Grew the club to over 50+ Members.

Head of Law Committee, Future Skills Academy

G.I.S. | Jul 2024 – Sep 2025

- Spearheaded legal education workshops as part of a nationwide student skills initiative.
- Established and led the first student-run law club at GIS, introducing peers to legal studies and case analysis.

Cornell Association of Technology & Business (Remote)

Remote | Jun 2025 – July 2025

- Completed university-level coursework integrating business systems and computer science applications. (Achieved A Grade)

Co-Founder, Tutors for GIS

Remote | Jun 2025 – Aug 2025

- Planned a vital incentive system and reached out to dozens of students across multiple grade levels to boost academic outcomes.

Certifications

- **Google ML & Marketing Certificate** — Completed ML and digital marketing training
- **Academic Excellence in Islamic Studies** — Awarded for outstanding performance
- **Karate Black Belt** — Progressed through the Karate Kyu/Dan system to reach a Black Belt. Achieved by practising Katas.
- **Academic Dedication in Spanish** — Recognized for commitment and achievement
- **Gold Certified Swimmer** — Singapore swimming proficiency certification
- **Harvard CS50** — Learned the fundamentals of programming through interactive projects and modules.
- **MUN Participation Certificates (Chair and Delegate)** — Attended Oakridge, Dunecrest, and GEMS WA MUNs

Community Service

Founder, Tutors for GIS – Co-founded a peer-to-peer tutoring platform at school, offering academic support across multiple subjects and mentoring younger students. Helped create a collaborative learning culture that promoted academic excellence and confidence among peers.

Green Ambassador – Led initiatives in school to promote sustainability and environmental responsibility. Organized awareness campaigns on recycling and waste reduction, encouraging active student participation in eco-friendly practices.

Recycling Awareness Project (Revive: Your Eco Bud) – Designed and launched a website dedicated to educating communities on plastic recycling methods and sustainable living. Shared accessible blogs and tips that spread awareness across the school and wider community.

STEM Outreach, Blossom Nurseries – Organized and delivered interactive STEM learning sessions for young children, introducing them to science and problem-solving through creative, hands-on activities. Inspired curiosity and early engagement in learning.

Leadership, Model United Nations – Served as Co-Head of MUN, training and mentoring delegates while fostering dialogue on pressing global issues. Created an inclusive environment that emphasized collaboration, empathy, and problem-solving.

Content Creation for Awareness – Built an online presence through cinematic edits and informative posts on sustainability, travel, and education. Leveraged social media platforms to inspire awareness and share impactful messages with a wider audience

Technical Skills

- **Development Tools:** HTML5, CSS3, JS, Flutter, Python, Java, PostgreSQL, SQLite, Git
- **Microsoft Office Suite:** Excel, Word, Powerpoint