

RAO ABDUL HADI

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Education

School

Expected Graduation: June 2026

A Levels — Edexcel Physics, Edexcel Mathematics, CIE Computer Science GEMS Cambridge International School, Sharjah

- O Level Results — **3 A's and 2 A***
- O Level Courses: Physics, Biology, Chemistry, Mathematics, English as a Second Language
- A Level Courses: Edexcel Physics, Edexcel Mathematics and CIE Computer Science 9618

Work Experience and Competitions

Ajman Wetland Conservation Challenge

November 2025

Lead ML Engineer – Winning Team (AED 20,000 Prize)

Ajman, UAE

- Designed and deployed a machine learning model to detect ecological stress patterns across the Ajman Wetlands using free environmental APIs and satellite data
- Led data engineering pipeline, including multi-source API integration, preprocessing workflows, and anomaly-detection logic
- Project awarded **1st Place (AED 20,000)** among competing teams for innovation, technical depth, and environmental impact

Eduvance – International Student Community

March 2025 – September 2025

Lead UX Developer - Intern

Remote

- Working with a global network of **18,000+ international students**, supporting community engagement and outreach
- Responsible for **branding, UI/UX design**, and **content creation** across social platforms, including logos and digital assets
- Designing and developing Eduvance's new website using **Next.js**, with a focus on responsive design and performance

VEX Robotics Competition

Oct 2022 – Jan 2023

Co-Developer and Engineer – GCS VEX Team

Dubai, UAE

- Assisted in mechanical design and electronics integration to win the **Best Design Award** at the VEX Robotics UAE Championship
- Supported autonomous programming logic and testing cycles to ensure consistent task performance on the field

FLL Innovation Project

March 2023 – July 2023

Lead Developer on GCS's First Lego League Team

Macquarie University, Australia

- Led software development for a solution that won the **Best Innovation Project Award** in regionals and received the **Rising All-Stars Award** at FLL Open Internationals
- Designed and implemented the UI/UX of the application, integrating logic to support user interaction and data display
- Collaborated across research and presentation teams to ensure alignment of technical development and innovation goals

NASA Space Apps Hackathon

Sep 2023 – Oct 2023

Lead Developer

GEMS Cambridge International, Sharjah

- Handled full-stack logic using Python and game design mechanics with an emphasis on interactive storytelling
- Awarded "Galactic Problem Solver" by NASA Astronaut **Sunita Williams**

Projects

Harvey AI Agent

Python | JavaScript | Yahoo Finance API | Alpha Vantage | FRED | SEC Filings

- Built a CLI AI agent for structured financial research using an intent-based memory architecture inspired by the STITCH framework (Structured Intent Tracking in Contextual History)
- Implemented contextual memory indexing by research intent, event type, and entity type to prevent context bleed across different analytical goals
- Integrated multiple financial data sources including Yahoo Finance, Alpha Vantage, FRED, and SEC filings to deliver source-driven, explainable insights

Time-Series Trading Algorithm

Python | Jupyter Notebook | Yahoo Finance API

- Developed an automated trading system that converts raw market price data into structured buy, sell, or hold decisions with built-in risk control
- Designed a layered workflow separating market analysis, signal generation, and decision logic to improve reliability and clarity
- Validated strategies using walk-forward simulations to reduce backtesting bias and assess real-world performance

Leadership

Creative and Web Lead – Eduvance (International Student Community) | Website **April 2024 – Present**

- * Led all branding and design work including logo design, content strategy, and visual identity for a community of over **18,000 international students**
- * Developed their official website, integrated a resource hub, and modernized the user journey
- * Played a key role in the platform’s rebranding and visual overhaul across social media

Inter-School and National Competition Winner (STEM and Business) **2023 – 2024**

- * First Place – GEMS Inter-school Business Competition, Abu Dhabi, 2023
- * Innovation Award – FLL Australia 2024 for robotics and engineering project
- * Led pitch strategy, prototyping, and development across multiple winning school and regional technology competitions

Technical Skills

- Languages:** Python, JavaScript, HTML, CSS
- Developer Tools:** Git, GitHub, Cursor, VS Code, Figma, Blender
- Libraries and Frameworks:** Next.js, ReactJS, Node.js, Scikit-Learn, Numpy, Supabase
- Design and Modeling:** UI/UX Design, 3D Modeling (Foundational)