

Rohan Verma

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EDUCATION

- American School of Dubai (ASD), UAE** 2019-Present
- **American Curriculum:** AP Computer Science A, AP Calculus AB, AP Chemistry
 - **AP Exams:** Computer Science Principles, AP Physics, Microeconomics
 - Pending: AP Calculus AB, AP Chemistry, AP Computer Science A
- Online Courses** 2025-Present
- CS50's Introduction to Cybersecurity (Ongoing)—HarvardX

HONORS & AWARDS

- BisectHosting Gaming Partnership (2024): Recognized for ~752k downloads; banners featured across all mods
- Paper Published at Technix International Journal for Engineering Research (ID: TIJER2510069)
- AP Scholar Award (2025): AP CS Principles, Physics 2, and Microeconomics
- Academic Excellence Award (2023): English 9 – received in Grade 9 for being amongst the top in English
- High Honor Roll with Distinction (2025): GPA 3.7+

TECHNICAL PROJECTS & COMPUTING EXPERTISE

- Founder & Lead Programmer, Reverb (CurseForge)** 2022-Present
- Engineered 8 Java-based Minecraft modifications; scaled cumulative downloads to ~752k using modular, event-driven architecture
 - Earned BisectHosting Gaming Partnership (“Big 3” server host); banners featured across all mods after exceeding download threshold (<https://www.curseforge.com/members/reverb/projects>)
 - Produced YouTube showcases and tutorials reaching 25K+ views, demonstrating build logic and optimization to a global modding audience

- Lead Developer, Navigator (GitHub Open Source) (<https://navigator.rsap.sh>)** 2025-Present
- Built a Linux-based homelab application hub consolidating media, cloud, and server services; optimized runtime to under 1MB RAM with C backend and HTML frontend
 - Open-source design with MIT License and user transparency; reached 80+ open-source community upvotes across platforms
 - Deployed self-hosted monitoring tools, service dashboards, and dark/light adaptive UI, advancing low-power network infrastructure for small-scale server admins

- President (Manager) (12), Member (11) Student IT Helpdesk, American School of Dubai** 2024-Present
- Led team of 5, architected and expanded school’s IT Helpdesk system to serve a new academic block, scaling tech support for ~600 students and managing 25 student volunteers
 - Developed a speed-test automation and data-logging network to identify weak access points; improved network diagnostics for IT team
 - Contributing to development of on-site file-hosting server to ensure service continuity during network outages; report directly to Director of IT for planning; Formalizing club to student organization

ACADEMIC RESEARCH

- Author, Published at Technix International Journal for Engineering Research** 2025-2025
- Title: What psychological factors influence gamers’ decisions to download third-party algorithms for video games?*
- Analyzed psychological and ethical factors influencing gamers’ adoption of third-party algorithms and modding tools. Synthesized insights from 10+ peer-reviewed studies using Technology Acceptance Model (TAM), TPB, and moral-cognition frameworks

INTERNSHIPS

- IT Intern, Think Software Services FZ LLC, Dubai (Top 100 SME)** Summer 2024
- Collaborated with a 5-member technical team providing enterprise IT support; deployed hardware, optimized networks, and performed diagnostics across client sites
 - Completed 70+ hours of professional training in server provisioning, remote access management, and client troubleshooting
 - Assisted in cloud migration testing environments; improved service latency by 15% with configuration tuning

SCHOOL ENGINEERING PROJECTS

Shuffler Robot, Design Studio Project

2025-2025

- Engineered alternative locomotion robot using platforms instead of traditional wheels for ground-based motion
- Designed shifting platform mechanism with VEX robotics equipment to achieve movement through friction; focused on motion optimization, applied problem-solving, and iterative physical design refinement

Automated Plant Watering System, Thinking & Engineering / TI-Basic

2025-2025

- Designed a programmable motor-driven irrigation system using TI-Basic for real-time water control; implemented 5-second timer logic for flow regulation
- Debugged timing and power irregularities, refining code for hardware synchronization; inspired continued passion for embedded systems and hardware-software integration

LEADERSHIP

Founder, Tech 4 Tomorrow Club, ASD

2024-2025

- Founded and led 5-member team delivering Arduino, Python, and prototyping workshops; conducted 20+ labs and designed complete learning tracks for beginners
- Led outreach during school club fair; expanded membership through live demonstrations and coding showcases; funneled 10+ members to ASD IT Helpdesk team

Executive Team-Web Developer, Publicist (12), Member (10,11), Global Issues Network (GIN)

2023-Present

- Reengineered GIN's website, integrating new database workflows and maintaining 100+ user records
- Hosted an Open Source Awareness Panel with 60+ attendees; connected coding transparency and global collaboration.
- Managed GIN social media presence, creating engaging content to grow GIN's school community reach

Falcon Ambassador, ASD

2024-Present

- Orchestrated family onboarding; mentored grade 10 students for school improvements; ensured readiness for incoming students
- Supported logistics and planning for large-scale school events including orientation and opening ceremony

Co-Author, Book for The Student Compass (Part of International Business Class)

2025-2025

- Authored a book to help new students navigate campus to enhance experience and engagement. Sold 20+ copies to students and made a total revenue of 865 AED, donating the profits to charity

Guitarist, ASD Jazz Band

2024-2025

- One of three guitarists; performed in school concerts for 400+ attendees; collaborated across rhythm and brass sections
- Strengthened improvisation, auditory precision, and live coordination, balancing artistic creativity with analytical discipline

COMPUTER SKILLS & INTERESTS

- **Computing Skills:** Java, Python, C, HTML/CSS, Javascript
- **Frameworks & Tools:** Linux CLI, GitHub, Arduino IDE, VS Code, Excel (Advanced), Notion
- **Focus Areas:** Systems Engineering, Network Optimization, Server Architecture, Open-Source Development
- **Languages Spoken:** English (Native), Spanish (Intermediate), Hindi (Native)
- **Additional Engineering Projects:** Sound-Dampening Panel, Reverse Engineering Project (RC Car)
- **Interests:** Game Development, Distributed Systems, Open Source, Server Engineering, Jazz Guitar, Embedded Tech, Cooking, Badminton, Robotics, Skateboarding, Swimming