

# Kayan Shah

United Kingdom

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## EDUCATION

**Haberdashers' Elstree Boys' School**, Elstree, Hertfordshire, UK | *September 2018 – Present*

**GCSEs:** Computer Science, Design & Technology, Mathematics, Physics, Chemistry, Biology, Geography, Spanish, Religious Studies, English Language, English Literature

## HONOURS & AWARDS

- Team leader of first Habs team to **Greenpower International Finals** (Oct 2025)
- Team leader of VEX Robotics team to **UK Nationals & World Championships** (Mar–Apr 2026); additional team to UK Nationals (2024)
- **Developed the #1 UK (MS/HS) VEX Virtual Robot Program** (#11 Globally MS) – March 2026
- **CREST Awards:** Silver (Individual), Bronze (Team) – Aug 2025
- **Greenpower Portfolio Award:** 1st Place (Regional) – Sep 2025
- **“Does AI Have Bias?” Essay Competition:** Merit with Distinction elements – Jan 2025
- **Young Leaders in Cricket Course** – Aug 2025
- **Duke of Edinburgh Award:** Bronze (2024–25), Silver (2025–26)
- **Make:Able DT Challenge:** World Finalist – May 2024

## RESEARCH, PROJECTS & WORK EXPERIENCE

**Author** – **“Interest in Technology and Need Analysis for the Adoption of Chatbots by the Elderly”** | 2025

- Conducted independent research analysing barriers to AI adoption among elderly users
- Evaluated usability, trust, and accessibility factors influencing chatbot engagement
- Produced structured report with practical recommendations for inclusive AI design

**E-Commerce Owner** – **eBay & Etsy** | 2024 – Present

- Operate online resale business specialising in electronic components (1–2 weekly orders; ~£300 annual revenue)
- Designed and commercialised custom 3D-printed keychains using a £550 printer
- Managed end-to-end operations: sourcing, production, pricing, and customer service

## LEADERSHIP EXPERIENCE

**Founder & Lead Engineer** – **Greenpower Electric Car Club** | *May 2024 – Present*

- Revived dormant school program; reached International Finals in first year
- Secured £1,500+ through sponsorship outreach and proposals
- Led CAD design and manufacturing of full-scale electric car
- Built mentorship pipeline to train junior members

**Team Leader** – **VEX Robotics** | *June 2025 – Present*

- Led first co-ed team to **VEX World Championship Finals (2026, St. Louis)**
- Shifted team strategy toward major judged awards through detailed engineering documentation
- Developed UK's #1 ranked VEX Virtual Robot program (Middle School and High School); #11 globally (Middle School)

**Editor-in-Chief** – **Computer Science Magazine** | *September 2025 – Present*

- Planned expansion of publication into multi-school regional collaboration
- Led cross-functional teams (STEM + Art) to improve design and editorial quality
- Pitched and secured leadership approval for partnership growth

**HLP AQA Partnerships Program** | *December 2025 – Present*

- Selected as 1 of only 10 students school-wide to participate in a leadership development program
- Completed modules on Building Strong & Inclusive Teams, Foundations of Peer Mentoring, Evolving Your Leadership Identity, and Making a Profound Community Impact
- Completed 10 hours of community service, applying leadership and mentoring skills to support local initiatives

**Young Leaders in Cricket Course** | *March – August 2025*

- Developed skills in team management, communication, and mental resilience under pressure
- Volunteered and contributed to fundraising efforts to support future participants
- Completed intensive training across coaching, umpiring, first aid, groundskeeping, and leadership

## EXTRACURRICULAR ACTIVITIES

**TEDx Committee Member** | *September 2025 – Present*

- Managed technical production: staging, lighting, audio, backstage and camera operations

**Volunteer** – **Burleigh House Residential Care Home** | *July 2025 – Present*

- Support residents through regular engagement and activities

**Music**

- Guitar: Grade 7 (working towards Grade 8)
- Bassoon: Grade 3 (working towards Grade 4)
- Perform in elite school ensembles

**Combined Cadet Force (RAF Section)**

- FCC Drill Award; earned Music, First Aid, and DofE badges

## SKILLS

**Programming:** Python (Advanced), Swift/SwiftUI, Arduino (C++), SQL, Markdown

**Engineering:** CAD (Onshape, Fusion 360, Techsoft 2D Design), 3D Printing (BambuLab, Ultimaker and Elegoo), Laser Cutting, Electronics, Soldering

**AI & APIs:** Anthropic, OpenAI, Google Gemini, Ollama (local LLMs), Grok, NewsAPI, Yahoo Finance API, Suno