



# Isaac Barker

## Student

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### Personal Profile

I am a very hard-working individual. My experience with web development, coding and my placement in engineering consultancy has equipped me to think analytically, solve problems and work in teams. This is because of my good interpersonal skills and flexibility in a variety of situations. I am resilient, reflective and have a love and willingness to learn. I hope to develop a career centred around Physics and the use of my German language skills.

### Work Experience

*Norman Bromley Partnership (8<sup>th</sup> – 12<sup>th</sup> July 2024).*

I completed a weeklong placement at Norman Bromley Partnership, an engineering consultancy firm, where I was able to experience using industry tools to assist in planning and designing building services for live projects. During my placement I worked to deadlines, learnt new digital tools and software quickly and worked as a team with my mentors.

### Skills

- **Programming:** Experience in JavaScript, Python and Java.
- **Development & Deployment:** Docker & Linux environments, Git and full stack web development using MongoDB, SQL, Django, React.js and Express).
- **Software & Tools:** Adobe Photoshop & Lightroom (for image editing), Microsoft 365 & Google Workspace

### Achievements

- Completed CS50: Introduction to Computer Science from Harvard University in August 2021, an 11-week online self-paced course, covering algorithms, data structures, web development and ethics.
- Achieved a Gold award in round 1 of the British Physics Olympiad 2024, a competition which challenges year 13 students with complex physics and mathematical problems.

### Hobbies and Interests

I enjoy coding, web-development, and computer science.

During 2022 and 2023 I worked on a Minecraft Plugin named Abilities (Origins Spigot) which replicated a popular addon at the time but ran server side for greater accessibility and received over 1000 downloads.

I actively develop and maintain [physicsim.co.uk](http://physicsim.co.uk), a website featuring interactive physics simulations. This project has helped me develop both my programming skills but also my problem-solving skills.

I also enjoy landscape photography outside of school.

### Education

Leigh Academy Hugh Christie  
September 2018 – August 2025

#### **GCSE (June 2023):**

10 GCSEs at grades 9-8, including a 9 in Mathematics, Further Mathematics, Physics and an 8 in English Literature & English Language.

#### **AS-Level (June 2024):**

A in AS-Level Further Mathematics, which I self-taught in my first year of Sixth Form.

#### **A-Level (Predicted June 2025):**

A\*s in Physics, German, and Mathematics.