



# MUHAMMAD TAIMOR ALAM

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## Education

### University of Manchester

BSc in Computer Science (Predicted First Class)

Expected Jun 2027

Manchester, UK

– **Modules:** Data Science, Operating Systems, Mathematical Techniques for CS, Intro to Programming I/II, Fundamentals of Computer Architecture, Fundamentals of Computer Engineering, Fundamentals of Computation

### Altrincham Grammar School for Boys

2016 – 2023

A-levels: Geography (A\*), Maths (A), EPQ in Data Science (A), Physics (B)

Altrincham, UK

– SAT: 1420; GCSEs: 10 subjects (Grades 9–7), AS Religious Studies (A)

## Experience & Projects

### GymBro – AI Instructor (Hackathon Winner) | *MediaPipe, Gemini, Python, React.js, TypeScript*

Apr 2025

3rd Place, GDG Challenge – StudentHack'25

Manchester, UK

- Engineered a cross-platform fitness app in **React Native**, leveraging **Mediapipe** for pose detection and posture checks.
- Implemented a **Python**-based pipeline to calculate angles and provide real-time workout feedback.
- Integrated **Neuphonic TTS** for voice-based interactions, enhancing accessibility and user engagement.
- Led a distributed team to meet hackathon deadlines, coordinating front-end, prompt engineering, and back-end tasks.

### PromptClash – Group Project | *SvelteKit, Supabase, TypeScript, HTML, CSS, AWS*

Sep 2024 – Mar 2025

Backend Developer & Organisation Lead

University of Manchester

- Integrated **real-time PostgreSQL** backend with role-based auth and event triggers (Supabase).
- Built backend middleware in **api.js**; added **profanity filtering** via external API integration.
- Deployed to **AWS EC2** with Route 53 DNS; ensured scalable, secure production setup.
- Developed reactive frontend using **SvelteKit + TypeScript** and SSR.
- Used Supabase subscriptions to eliminate need for websockets in real-time game flow.
- Organised weekly sprints, code reviews and presentation rehearsals; followed **test-driven development** procedures.

### Newsify – AI Photojournalism (Hackathon Winner) | *Python, HTML, CSS, GPT-4, React.js*

Nov 2024

1st Place, UniCS Challenge – GreatUniHack'24

Manchester, UK

- Built a full-stack web application converting images to full-length articles using **GPT-4 + image metadata**.
- Replaced Cloud Vision API with custom parser to boost **label accuracy** for prompts.
- Completed MVP in 16 out of 24 hours; learned and implemented **React.js** during hackathon.
- Added adaptive styling, CSS mood layers, and AI-generated news titles/descriptions.

### Website Project | *HTML, CSS, Mermaid.js*

Jan 2024 – May 2024

Frontend Developer – Computational Thinking Site

University of Manchester

- Built reusable CSS system and visual homepage using **Mermaid.js**.
- Managed QA, sprints, and final delivery; scored **85%** overall.

## Technical Skills

**Languages:** Python, Java, HTML/CSS, SQL, JavaScript, TypeScript, PHP

**Frameworks & Tools:** Svelte, React.js, Node.js, Supabase, Mermaid.js, Vite.js, LaTeX, Git

**Software:** VS Code, PyCharm, IntelliJ, Wolfram Mathematica, GitHub, GitLab

**Systems:** Ubuntu, Windows, macOS

## Extracurriculars & Volunteering

### UniCS – PR Officer

Sep 2024 – Present

Social Media Management

Manchester, UK

- Managing **Instagram, TikTok, LinkedIn, Discord** to grow visibility among students/sponsors.

### AGSB Esports Team – Team Leader

2021 – 2023

ConfettiX Champions (2x)

Altrincham/Nottingham, UK

- Led strategy; **won British Esports Student Championships Division 1 Titles** for two years consecutively.

### Debating Society – Competitor

2019 – 2023

Questioner

Altrincham, UK

- Commended for rebuttals and counter-argument logic; represented AGBS at inter-school events.

### Volunteering – ISoc & InTuition

2020 – 2023

Student Volunteer

Altrincham, UK

- Led charity events and mentored local GCSE students in Mathematics and Physics.