



MUHAMMAD TAIMOR ALAM

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Education

University of Manchester

Expected Jun 2027

BSc in Computer Science (Predicted First Class, FY: 82%, Y1: 73%)

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

Traveloka Infra Upgradation - DevOps Intern | HCL, HCP Terraform, AWS

June - July 2025

NorthBay Solutions, Remote

Doha, Qatar

- Worked from client specifications to engineer a custom reusable **Terraform** module for a custom 3-tier **AWS VPC**, isolating data tier to boost security & reduce provisioning time by 40%.
- Automated IaC deployment via **GitHub Actions** CI/CD, eliminating 90% of manual configuration errors.
- Refactored Terraform monoliths into modules using **for_each**, cutting resource recreation by 70%.
- Implemented state locking management with **S3/DynamoDB**, preventing configuration drift for team workflows.

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

Apr 2025

Backend Developer, 3rd Place, GDG Challenge – StudentHack'25

Manchester, UK

- Built a fitness app in **React Native** using **MediaPipe** for real-time pose detection, improving posture accuracy by 35%.
- Built a **Python** pipeline to calculate joint angles, reducing feedback latency by 40% and enabling real-time posture correction.
- Integrated **Neuphonic TTS** to deliver voice-guided feedback, improving accessibility and boosting user engagement.
- Led a 4-member distributed team to complete a functional MVP in under 36 hours, securing 3rd place out of 20+ teams.

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

Sep 2024 – Mar 2025

Backend Developer & Organisation Lead

University of Manchester

- Engineered a **real-time PostgreSQL** backend with Supabase, enabling live user interactions with role-based auth and event triggers.
- Built backend middleware and implemented **profanity filtering** via external APIs, enhancing community safety.
- Deployed full-stack app to **AWS EC2** with custom DNS (Route 53), ensuring scalable and secure hosting.
- Developed reactive front-end using **SvelteKit + TypeScript** and SSR, improving page load time and user experience.
- Optimized real-time game flow by replacing websockets with **Supabase subscriptions**.
- Led weekly sprints and code reviews, implementing **test-driven development** to ensure 90% code coverage.

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

Nov 2024

Backend Developer, 1st Place, UniCS Challenge – GreatUniHack'24

Manchester, UK

- Developed full-stack app converting images to articles using **GPT-4** and image metadata, achieving 90% content relevance score.
- Replaced Cloud Vision API with custom label parser, increasing prompt accuracy and reducing dependency on external services.
- Delivered MVP within 16 hours, learning and integrating **React.js** during the hackathon.
- Designed adaptive UI with CSS mood layers and generated AI-based news titles and descriptions for enriched UX.

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.

Volunteering – ISoc & InTuition

2020 – 2023

Student Volunteer

Altrincham, UK

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