Muhammad Taimor Alam

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Education

University of Manchester   **Expected Jun 2027**

*BSc in Computer Science (Predicted **First Class**, FY: 82.4% Y1: 72.4%)*   *Manchester, UK*

− **Modules:** *Processor Microarchitecture, Data Structures & Algorithms, Programming Languages & Paradigms, Intro to AI, Database Systems, Distributed Systems, Data Science, Operating Systems, Fundamentals of Computer Architecture / Engineering / 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

Traveloka Infra Upgradation — DevOps Intern | *HCL, HCP Terraform, AWS*   **Jun − Aug 2025**

NorthBay Solutions (Remote)   *United Kingdom*

− Engineered a reusable **Terraform** module for a 3-tier **AWS VPC**, isolating data tier and reducing provisioning time by 40%.

− Automated IaC deployments via **GitHub Actions** CI/CD, eliminating 90% of manual configuration errors.

− Refactored monolith Terraform into modules using **for_each**, cutting resource recreation by 70%.

− Implemented state locking with **S3/DynamoDB**, preventing configuration drift across team workflows.

Projects

WellWorld — Global Volunteering Planner (Hackathon Winner) | *React, Three.js, FastAPI*   **Nov 2025**

Backend Developer (Team of 4), 1st Place GDG & 3rd Place Booking.com — GreatUniHack'25   *Manchester, UK*

− Integrated **FastAPI** + Selenium to surface real volunteering opportunities with **Supabase** auth/real-time rooms.

− Used **Gemini API** to match user preferences to opportunities; rendered results on an interactive **Three.js** globe.

− Delivered chat, voting, and flight-route planning with Google services for end-to-end trip coordination.

MeetSpaces — Real-Time Meetup Planner | *React, Node.js, FastAPI, Overpass, Supabase*   **Nov 2025**

Full-stack Developer (Team of 4), Runner-Up, Accenture Challenge — DurHack X   *Durham, UK*

− Built a real-time 4-person room flow for natural-language preference capture and consensus planning.

− Mapped polygons and **Gemini** amenities to **Overpass** queries to fetch suitable venues under 500ms.

− Orchestrated voting and generated personalised GPS routes with live **Supabase** sync.

CapitaLiteracy — Financial Literacy App | *React, Next.js, Flask, Gemini*   **Oct 2025**

Full-stack Developer (Team of 4), 2nd Place, Capital One Challenge — WHack 2025   *Warwick, UK*

− Implemented **Tesseract OCR** with regex parsing to convert statements into clean JSON for ML categorisation.

− Built **Flask** + **Supabase** APIs for auth, file uploads, and real-time financial data handling.

− Integrated the **Gemini API** with user context for transaction analytics and category breakdowns in **React**.

PromptClash — Group Project | *SvelteKit, Supabase, TypeScript, HTML, CSS, AWS*   **Sep 2024 − Mar 2025**

Backend Developer & Organisation Lead (Group of 6)   *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.

Technical Skills

Languages: Python, Java, C, HTML, CSS, SQL, JavaScript, TypeScript, PHP, Verilog, VHDL, RISC–V Assembly
Frameworks & Tools: React.js, Next.js, Svelte, Flask, Node.js, FastAPI, Supabase, TailwindCSS, Terraform, Vite.js
Data/ML & APIs: Tesseract OCR, OpenCV, NumPy, Pandas, Google Gemini API, Overpass
Software: VS Code, PyCharm, IntelliJ, GitHub, GitLab

Extracurriculars & Volunteering

PASS Leader (Sep 2025–Present) — Facilitate study sessions and mentoring for lower-year students; **PropTech Connect 2025 Help Desk** — Supported attendees/sponsors and resolved Brella app issues; **UniCS PR Officer** (Sep 2024–Present) — Manage Instagram, TikTok, LinkedIn, Discord.