

Hamzah Asif

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PERSONAL SUMMARY

- A Final Year BSc Computer Science student (Predicted 1st) with a strong interest in software engineering and cloud infrastructure. Through hackathons, academic work and personal projects, I have built and deployed full-stack and containerised applications while working with AWS based architectures. Seeking a graduate or entry level role to continue developing reliable, scalable and maintainable systems.

TECHNICAL SKILLS

- **Programming** – Python (Pandas, Skikit-learn), C#, C++, SQL, Object-Oriented Programming, Data Structures & Algorithms, Git & Github
- **Cloud & Infrastructure** – AWS (Lambda, Bedrock, API Gateway, S3, CloudFront), Docker, Proxmox, Nginx (reverse proxy), TrueNAS, CloudFlare
- **Systems & Networking** – Linux System administration, NFS, ZFS, DNS, SSH, Subnetting, TCP/IP & OSI networking models

RELEVANT PROJECTS

AWS Breaking Barriers - StopTheTraffik

- Collaborated with cloud industry experts to design and build a serverless GenAI solution to **automate generation of key judgement reports**, reducing manual analysis time from days to minutes for a charity tackling human trafficking
- Implemented an AWS-based pipeline using Lambda, API Gateway, S3, Bedrock, CloudFront and SES to generate Key Judgement PDF reports from synthetic datasets
- Developed confidence working in fast paced environments alongside AWS solution architects and senior engineers.

Homelab & Data Platform

- Designed and built a **virtualised homelab using Proxmox**, enabling hands on experimentation with deployment, networking and system configuration
- Deployed containerised services using Debian 12 and Docker, managing configuration and service orchestration through Portainer
- Configured TrueNAS within a VM and network services including Pi-Hole (DNS filtering) and Tailscale
- Deployed **personal portfolio site locally within Docker** using Nginx reverse proxy and Cloudflare. Automating deployments via Git-based workflows to simulate CI/CD principles

Final Year Dissertation (in progress) – Predicting Stock Movement using Social Media Sentiment

- Designing and implementing a machine learning pipeline for predicting TESLA stock movement based on social media sentiment
- Performing exploratory data analysis to quantify the correlation between daily sentiment and stock price

Medical Data Classification

- Applied supervised learning techniques to classify structured medical data (e.g. SVM, Ensembles, KNN)
- Conducted model comparison and performance evaluation including ensembles using multiple metrics such as Accuracy and F1-Score
- Critically analysed feature representations and modelling choices in a healthcare context.

(Full list of projects documented on my website)

EDUCATION

Manchester Metropolitan University **Sept. 2022 – May 2026**

BSc in Computer Science Predicted 1st

Key Modules: Algorithms and Data Structures, Networks, Operating Systems, Distributed Computing, Ethical Hacking and Artificial Intelligence

The Sixth Form Bolton **2020 - 2022**

A-Levels - Maths, Computer Science, Politics.

Eden Boys School Bolton **2015 - 2020**

GCSE - 12 GCSEs including Maths (6), English (6), and Triple Sciences

WORK EXPERIENCE

Research Assistant for AI Language Data Collection **February 2026 – Present**

- Assisting PHD student in acquiring synthetic datasets to be able to train a smaller language model for autotrader

John Lewis & Partners **October 2023 – Present**

Customer Assistant

Trafford , Manchester

- Delivered high quality customer service across tills, Click & Collect, logistics and shopfloor operations, developing strong communication and problem-solving skills
- Maintained stock handling process including RFID tagging, markdowns, stock write-off and financial adjustments, ensuring inventory accuracy
- Supported rollout of new Deliver from store service, improved order accuracy rates through workflow adjustments and peer training

BNY Mellon Hackathon **November 2024**

- Attended hackathon event to explore industry practices and the application of technology and data in the finance sector

Arm Work Experience day **September 2021**

- Gained exposure to the tech industry and learned about company operations at a global scale.

Barclays Technology Centre Work Experience **Easter 2019**

- Completed a course on basic understanding of data analytics and gained insight into daily operational duties