Hasan Akhtar

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RELEVANT WORK EXPERIENCE

BCFT – IT Automation Officer, Bradford   **October 2024 – March 2025**

BCFT – AI-Driven Social Impact Advocate, Bradford   **July 2024 – Sept 2024 (10 wk. internship)**

The Bradford Children and Families Trust (BCFT) supports children and families in Bradford, working closely with the local council. Originally undertook an internship that started my professional journey in Computer Science, where I:

- **Researched and analysed** *AI solutions* for child social care *challenges* faced by the Trust.
- **Developed, deployed and tested** an *AI-powered document search* for training guides, ensuring functionality and *bug-free performance*.
- **Authored** a business report on *challenges* and *AI mitigation strategies*.
- **Built** a *Work Hours calculator* using *Python* and *Microsoft Power Apps*.
- **Experimented with and tested** document extraction and speech-to-text *AI features* in programming environments, including *Google AI APIs*.
- **Created** an *AI testing agent* using *Gemini and Hugging Face* models.

Following this, I was offered a part time role following the Summer Internship, during this role I:

- **Developed** an *AI Document Extraction app in Python* to enhance productivity when filling out forms based on existing data in other forms within social care teams*.*
- **Edited and Recorded** comprehensive tutorials for colleagues on *Microsoft SharePoint*
- **Collaborated on and Built** a *Microsoft Power Automate solution* to enhance existing workflows
- **Demonstrated** the *AI Document Extraction app* to one of the Social Care Teams

University of Bradford – Lab Demonstrator   **Sept 2024 – April 2025**

- Providing support and assistance to first-year students during their practical lab sessions.
- Addressing queries and solving issues with software and applications.

TECHNICAL AND SOFTWARE SKILLS

- **Python Proficiency** - Strong experience with *Python*, including building *AI-powered applications* and *automation tools*, especially with *Flask* more recently (**AI Apps Challenge**, **SQL Statement Generator**, etc.)
- **Data Analysis & AI -** Developed *AI-powered tools* and *analysed* consumer trends.
- **DevOps and Cloud Awareness -** Familiar with *AWS and Azure*, also created *multiple AI applications* in *Google Cloud Workspace*.
- **Teamwork and Collaboration** - Worked effectively in *Agile-style environments* through *group projects*, *internships*, and as *a Lab Demonstrator*.
- **SQL and Database Skills -** Solid understanding of *database systems*.
- **Problem-Solving -** *Designed and deployed* innovative *solutions* like AI-powered tools and custom business applications for *real-world challenges*.
- **Technical Research** - Authored *business reports* on *AI mitigation strategies*.

EDUCATION AND QUALIFICATIONS

University of Bradford   **Sept 2023 – May 2027**

BSc (Hons) Computer Science   **First Year Average: 88%**

- **University Projects** – *details in 'University Projects' section below.*
- **Key Modules** (*2nd year – current*): Artificial Intelligence (93%), Database Systems (82%), Data Structures & Algorithms (85%), Numerical Analysis, Enterprise Pro, Computer Communications and Networks
- **Key Modules** (*1st year*): Mathematics for Computing (91%), Technical and Professional Skills (76%), Fundamentals of Programming (100%), Computer Architecture and Systems Software (92%), Software Design and Development (88%), Internet Technologies (82%)

Bingley Grammar (Secondary School + Sixth Form)   **Sep 2018 – June 2023**

A-levels: A* in Computer Science, B in Physics, and an A in Mathematics.

GCSEs: 9s in Mathematics, Physics, Further Maths and Computer Science; 8s in Chemistry, Biology, English Literature and Statistics; 7s in Spanish, Geography, and English Language

Volunteer – The Children's Society, Shipley   **Aug 2023 – July 2024 + Sept 2024 (approx. 1 year)**
Contributed to a charity focused on supporting young people. Demonstrated Resilience, Organisational, Communication, Maintenance and Initiative skills during this role.

Young Professionals Work Experience program, Online   **October 2022**
Participated in a digital work experience program over zoom. Enhanced networking skills and gained tech industry insights through presentations and professional networking.

Work Experience – Boots Pharmacy, Guiseley   **June 2022**
Demonstrated technical, teamwork, communication, and organisational skills while assisting with medication management and customer interactions in a pharmacy setting.

SKILLS AND ACHIEVEMENTS

Below is a comprehensive overview of some of the Programming projects I have completed, there are a lot more as well.
Programming Projects:

- GUI calculator - A Tkinter calculator made in python.
- Football Pong - A football themed spin-off of ping-pong.
- Graphs Displayer - A program to display graphs (nodes + edges) in various formats.
- Chest Chess - My own spin-off of chess involving chests.
- Truth Table Generator - A program that generates a truth table for a Boolean logic gate.
- YouTube Playlists Plugin - A browser extension to optimise functionality of playlists on YouTube.
- AI Cover Letter Writer - A python program that utilises Gemini, takes full CV as input in top left box, full job description in top right box and then can click a button to generate Cover Letter in bottom box.
- WhatsApp Poll Configurer - A small script that automates the creation of a poll based on an input image using PIL image processing, clipboard functionality and PyAutoGUI to automatically navigate the poll.
- Activity Enrolment System - A Java web app project developed as part to a University Coursework Group project.
- SQL Statement Generator - A small tool with a html user interface that uses templates to assist with SQL queries.
- AI Apps Challenge 2025 - My own collection of AI-powered applications that can assist users with various tasks such as Searching through Documents, Calculating Work Hours, writing Professional Cover Letters and more.

Awards:

- iDEA (Inspiring Digital Enterprise Award) Bronze and Silver [achieved July 2020]
- TechTheFuture Technology Work Experience Certificate [achieved October 2022]
- Microsoft Azure AI Fundamentals (AI-900) [achieved May 2024]
- Brad-Attain High Achievement in Research Award (based on BCFT Internship) [achieved October 2024]
- AWS Cloud Practitioner [Working Towards]

LEISURE INTERESTS

Sports/Personal fitness – Gym (3 times a week), Football & Basketball (in the park with family)
Gaming – PlayStation games e.g. Fortnite, EA sports Fc25 etc.
YouTube channels – main channel: Fifa Utuber - YouTube, Python Tutorials YouTube channel (with website)
Freelance Business – Started in May 2025, selling Software Applications requested by clients
Other – Programming Projects – see *Skills And Achievements* section. Personal and Professional GitHub profiles.

REFEREES

Dr. Amr Abdullatif, Assistant Professor / Personal Academic Tutor   **Email**: a.r.a.abdullatif@bradford.ac.uk
Mr James Hobson, Bradford Children's & Families Trust   **Email**: james.hobson@bradfordcft.org.uk