Hasan Akhtar

24 Bargrange Avenue, Shipley, West Yorkshire BD18 2AA

07359 054 199 | akhtarhasan2005@gmail.com

https://www.linkedin.com/in/akhtar-hasan-7959b8254/

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, Database Systems, Data Structures & Algorithms, 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

TECHNICAL AND SOFTWARE SKILLS

- **Programming Skills -** Proficient in Python and Java development.
- **Experience with DevOps, Cloud, and Agile –** As evidenced by Azure AI Fundamentals Certification.
- **Technical Research** - Authored business reports on AI mitigation strategies.
- **Strategic Thinking and Problem-Solving** - Demonstrated ability to solve real-world problems through Internship experience and Programming Projects, YouTube channels, etc.
- **Collaboration and Communication -** Labs Demonstrator role, University Group projects, Volunteering role.
- **IT Systems Management -** Experienced in systems management and troubleshooting.
- **Project Leadership** - Led a Java application development project.

UNIVERSITY PROJECTS

Java Coursework (Mole game)   **Fundamentals of Programming – First year (100%)**

- Completed code for Java class methods to do with player movement, non-player character movement, tile generation, edge boundary limitations, scoring, adding new levels, player mining and more.
- Made use of 2D arrays, nested for loops, random generation, existing methods and more.
- Made proficient usage of Java, a new programming language for this project and completed the extension task, utilising Java GUI classes and conducting extra research for this task.

Use Case Diagrams, Programming and Unit Testing   **Software Design & Development – First year (88%)**

- Researched definitions for Actor & Use-case, constructed a simple Use-case diagram based on a basic banking system, classified text files based on year-specific numbers, applied unit testing.
- Made use of Regular expressions, file reading and writing methods, Javadoc documentation and more
- Further developed my proficiency in Java and learnt new techniques and skills in Java programming.

Group Project (Extracurricular activities system)   **Software Design & Development – First year (88%)**

- Led a group of 8 or 9 students to develop a Java application with a web-based front end, also helped produced Software requirements and Software Design with detailed software documentation.
- Further developed leadership skills and advanced Java skills, especially using web APIs

Dynamic website (Online E-commerce Shop)   **Internet Technologies – First year (82%)**

- Utilised HTML, CSS, JavaScript, PHP, and MySQL technologies to help develop this website based on selling Internet of Things (IoT) gadgets, including administrator specific permissions and pages.
- Gained vital experience of back-end web development and furthered my skills in front end.

RELEVANT WORK EXPERIENCE

BCFT – IT Automation Officer, Bradford   **October 2024 – Present**

The Bradford Children and Families Trust (BCFT) supports children and families in Bradford, working closely with the local council. A part time role offered following the Summer Internship (see below), during this role I have achieved

- **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 – Present**

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

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

Original Internship that started off my professional journey in the world of Computer Science where I achieved:

- **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.

SUMMARY OF OTHER EMPLOYMENT EXPERIENCE

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

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.

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]

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 Fc24 etc.
YouTube channels – main channel: Fifa Utuber - YouTube, Python Tutorials YouTube channel (with website)
Other – Programming Projects – see *Skills And Achievements* section above.

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