Hasan Akhtar

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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

- **Data Analysis & AI -** Developed AI-powered tools and analysed consumer trends.
- **Technical Research** - Authored business reports on AI mitigation strategies.
- **Microsoft Power Apps** - Created business tools using Power Apps.
- **Programming Skills -** Proficient in Python and Java development.
- **Web Development -** Competent in HTML5, CSS, JavaScript, web APIs.
- **Database Systems -** Solid understanding from coursework and projects.
- **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.

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)**

The Bradford Children and Families Trust (BCFT) supports children and families in Bradford, working closely with the local council. During this role I have achieved:

- **Researched** *challenges* in child social care *faced by the Trust.*
- **Analysed** *AI solutions* to address the Trust's *needs.*
- **Developed and deployed** an *AI-powered document search* for training guides.
- **Thoroughly tested** *AI document search* for *functionality* and *bugs*
- **Authored** a business report on *challenges* and *AI mitigation strategies.*
- **Built** a Work Hours calculator in *Python* and *Microsoft Power Apps*
- **Experimented with and tested** document extraction AI features in programming environments.
- **Evaluated** *speech-to-text AI features* in programming environments (using *Google AI APIs*)
- **Created** an *AI testing agent* using Gemini and Hugging Face models.

Volunteer – The Children's Society, Shipley   **Aug 2023 – July 2024 + Sept 2024 (approx. 1 year)**

Contributed to a charity focused on supporting young people. During the 2022/23 term, their systems change efforts impacted approximately 863,555 young individuals, collaborating with over 24,000 professionals.
In this role, I demonstrated the following skills:

- **Resilience –** tagging clothes, even when faced with challenges.
- **Organizational –** sorting clothes, steaming, and handling toys and books.
- **Maintenance and Initiative –** maintaining the shop floor.
- **Communication –** serving customers at the till.

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 - A spin-off of chess involving chests.
- Football Chess – A football themed spin-off of chess.
- 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 Powered Code Translator - An app that lets you write coded in structured English, then translates it to executable python code, powered by Artificial Intelligence.
- 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]

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.

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