

# Humza Hussain

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## Personal Profile

Technologically proficient individual with a background in software development and data analysis, possessing expertise in Python, web development tools, and low-level programming. Eager to specialise in data engineering, cloud technologies, and backend development. Proven ability to quickly learn new tools and thrive in collaborative, cross-functional teams. Seeking to apply skills in innovative financial services and technology environments.

## Skills

- **Python** development using libraries like **socket** to automate server port blocking, **Tkinter & CustomTkinter** for GUI apps like a folder organiser, and **Groq APIs** to explore AI-driven shape drawing with **Python's Turtle** library.
- Developed simple **C++** applications for **automation** such as an auto clicker for idle, repetitive parts of video games
- Created and optimised **relational database solutions** with **Flask** and **MySQL**, integrating backend functionality with web apps.
- Developed and deployed **web servers** using **AWS cloud services** managing it through Linux utilising the **CLI**.
- Built and tested **virtual networks** using **Packet Tracer** to understand and simulate real-world networking setups.
- Designed and developed **2D games** using **Kaboom.js** and **TypeScript** with constraints for a focus group of 7-10 year olds.
- Applied **modularisation** techniques in **React** projects with **Vite.js**, improving code organisation and maintainability.
- Completed **Cisco Networking Basics** and **Ethical Hacking** courses, covering network protocols, security principles, and penetration testing basics.

## Certifications

**Networking Basics | Cisco NetAcad** | Issued: Jan 2025

**Ethical Hacker Self-Paced Course | Cisco NetAcad** | Issued: Jan 2025

**Introduction to Cybersecurity | Cisco NetAcad** | Issued: Nov 2023

[LinkedIn Badges and Certifications](#)

## Education

**Extended Diploma in Computing & AS-Level Edexcel Core Maths | Ada, The National College of Digital Skills** | *September 2023 - July 2025*

- Predicted D\*D\*D\*A

**GCSEs | Ilford County High School for Boys** | *September 2018 - July 2023*

- Physical Education (5), Maths (6), Physics (6), Biology (6), Chemistry (6), History (6), Spanish (6), English Language (7), English Literature (6), Religious Studies Short Course (7), Business (5)

## Experience

### **Hardware Support Technician | Waltham Forest Town Hall | *October 2021***

- Assessed and categorised over 150 outdated laptops, using Windows troubleshooting tools to identify repairable devices and minimise waste by enabling effective resource allocation.
- Diagnosed and repaired laptops by disassembling hardware and addressing issues within defined limits, improving operational efficiency and reducing equipment downtime.

### **Primary Computing Extracurricular Club Lead & Co-Lead | Ada, the National College for Digital Skills | *2023-2025***

Introduced primary school students to fundamental computing concepts using micro:bits, creating engaging lesson plans to simplify complex topics such as programming and hardware interaction.

Mentored students through hands-on projects, troubleshooting code and hardware problems to cultivate problem-solving abilities and spark curiosity about technology.

## Industry Projects

### **Stock Data Analysis | Bank of America | *February 2024***

*Role: Software Developer*

- Developed a Python GUI using Tkinter. This enabled users to load historical CSV data and analyse trends interactively through Pandas and Plotly.
- Delivered an intuitive tool for data visualisation, improving accessibility and aiding informed decision-making for financial analysis.

### **AI in Education | Salesforce | *October 2023***

*Role: Researcher/Presenter*

- Performed in-depth research on AI applications in education and presented findings to Salesforce employees, leading discussions to share knowledge and insights.
- Worked effectively as part of a team to deliver professional presentations, showcasing strong communication and teamwork skills within a corporate environment.

## Personal Projects

**DBDServerBlocker** - A python script that creates and deletes networking rules on the Windows firewall to reduce latency when connecting to AWS Gameservers.

**PositiveMessageBot** - A python script which gets a random quote from the ZenQuotes API and automatically commits it to a github repository.

**BloodWebAutoClicker** - A C++ script built to automate the process of levelling up characters in Dead By Daylight

**YFinanceStockTool** - An application that allows users to view historical data of companies using Flask, Plotly, Pandas and Jsonify.