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.

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- Assessed and categorised over 150 outdated laptops, using Windows troubleshooting tools to identify repairable devices and minimise waste by enabling effective resource allocation.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.

Chief Technology Officer | ApprenticeWatch | *Jan 2025 - Current*
- Built and managed the technology behind ApprenticeWatch, creating a reliable and scalable platform to simplify the apprenticeship finding process.
- Handled everything from coding and system design to security and compliance, keeping the platform efficient, secure, and ready to grow.

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.

Extracurriculars

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.
Primary Computing Extracurricular Club Lead & Co-Lead - A club where primary students learned coding and hardware basics with micro:bits.