

Ian Hunter Wood

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https://iswoody2.github.io/Ian_Portfolio_website/

Profile Overview

I am a motivated MSc Computer Science student at the University of York with a unique blend of technical and analytical expertise, underpinned by a background in law and a passion for technology. Proficient in Python, SQL and HTML, CSS, I have hands-on experience in web development, data analysis and creating innovative solutions such as AI-powered tools. My strong leadership and organisational skills are demonstrated through roles like leading a Climbing and Mountaineering Society and mentoring peers, while my communication skills shine in delivering engaging talks to diverse audiences, including industry leaders. With a track record of conducting in-depth research, aligning outcomes with goals, and a commitment to continuous learning, I am ready to tackle complex challenges and contribute to innovative projects.

Skills Summary

-Programming Languages: Proficient in Python ('100 Days of Code: The Complete Python Pro Bootcamp in Progress') and SQL (Big Data Analytics)

-Web Development: HTML, CSS, JavaScript and actively expanding knowledge in React, Node.js, Express, MongoDB (Web Development Bootcamp in Progress)

-Software Engineering: Skilled in version control with (Git/GitHub), Debugging, and Error Handling

-Languages: English (Native), Spanish (C2 level)

-Communication: Accomplished public speaker and presenter, delivering engaging talks to university audiences and industry leaders

-Leadership: Demonstrated as a Climbing and Mountaineering Society leader, mentoring team members and organising events

-Organisation: Successfully balanced full time work alongside part-time studies, maintaining excellent performance in both areas

Education

MSc Computer Science

University of York / 2023-2025(Expected) / Predicted Merit

-Big Data Analytics (Python & SQL): Created a data pipeline for Cleaning Housing Data, efficiently extracting and updating datasets

-Software Engineering: Achieved Merit; developed expertise in Agile methodologies and project management.

-Computer Architecture & Operating System: Achieved Distinction; gained a deep understanding of system architecture.

LLB Scots Law with English Law

University of Aberdeen | (2:1)

-Dissertation, "Kessler Apocalypse' Questioning the Adequacy of international Space Law to Regulate space Debris (1:1) - Soon to be published

Coding Projects

-Matt Tebbit's Website

Built a user-friendly website using HTML, CSS and JavaScript, optimised for all devices, to showcase the work of an emerging musician and engage audiences effectively

-Space Object Analysis

Analysed historical trends and timelines of space objects using Python libraries such as NumPy, Pandas, Matplotlib and Seaborn

-Data Cleaning Tool:

Developed a Python-based desktop application using Tkinter for seamless data uploading, cleaning, and analysis

-AI-Powered Notes Generator for YouTube Videos

Integrated OpenAI's Whisper and GPT to turn complex video content into clear, concise notes.

Experience

Aston Bond / Paralegal

-Leveraging analytical skills developed through legal research, now the skills are used for debugging and troubleshooting code issues in software projects

-Applied attention to detail in ensuring accuracy in legal documents, now crucial to ensure accuracy and error-free coding in my programming

-Project management in coordinating multiple client matters, which I now apply to software projects organisation, timeline management and task prioritisation

OECD

Project Co-Ordinator

-Led a team to develop a project that reached the final selection stage at the OECD, emphasizing innovation and collaborative research.

-Conducted comprehensive research to align project contributions with OECD's goals and regulatory frameworks.

Speaker

Sirius Space Talks

- Presented innovative ideas on space law and engaged with industry leaders such as Thales Alenia Space and Airbus
- Facilitated actionable discussions on space law and technology

Academic Course Representative

University of York, Department of Computer Science

- Advocated for peers, communicated concerns to faculty, facilitated weekly study sessions, and resolved students issues, enhancing the academic experience for students

Additional Courses Taken

-100 Days of Code: The Complete Python Pro Bootcamp

(In Progress): Building daily proficiency in Python with real-world project completions

-The Complete 2024 Web Development Bootcamp

(In Progress): Gaining front-end and back-end skills (HTML, CSS, JavaScript, React, Node.js, Express, MongoDB) and hands-on experience with Git/GitHub and Agile methodologies (Scrum).