Jack Auty

Address: Doncaster, DN6

Mobile: 07801986397 **| Email:** jackedwardauty@gmail.com

Portfolio: https://github.com/JackEdwardAuty

LinkedIn: https://linkedin.com/in/jack-auty-1946643a0/

Personal Profile

I am a proactive and technically skilled **Computer Science graduate** with a solid foundation in software development, artificial intelligence, IT system support, and data analysis. My expertise has been developed through academic study, intensive training, and extensive self-directed learning. Although I have not yet held paid industry experience, I have built a robust GitHub portfolio demonstrating my ability to design, debug, document and implement technical solutions across a range of modern technologies.

I combine a lifelong passion for technology with strong active listening, attention to detail, analytical reasoning, and clear communication skills. I am highly competent in producing well-structured technical documentation in Markdown and quickly adapting to new tools and methodologies.

I am focused on continuously expanding my expertise, currently honing data analysis skills in Excel, SQL, PowerBI, Tableau, Python, and Microsoft Azure through an 8-week intensive **Data Analyst Bootcamp** with Just IT Training. I am actively expanding my GitHub portfolio to demonstrate these evolving competencies.

I am now seeking a challenging role in **Data Analysis** that will allow my diverse technical skills, analytical mindset and passion for innovation to flourish. I thrive in dynamic environments and drive enthusiasm from contributing meaningfully to high-impact projects that sustain my continued professional development.

Key Tech & Soft Skills

- **Data Analysis & Visualization**
    - **SQL**, **Python (Pandas, Matplotlib, Seaborn)**, **Excel**, **PowerBI**, **Tableau**, **Microsoft Azure**
    - GitHub portfolio showcasing end-to-end data projects, dashboards, and analytical reports
- **Software Engineering & Programming**:
    - Full-stack development (**C**, **C++**, **Java**, **C#**, **Python**, Flask, **JavaScript/TypeScript**, **HTML**, **CSS**)
    - Version control with **Git**, adherence to **Agile** methodologies
    - Competency in **validating**, **debugging** and **optimising** code through **refactoring**
    - Designing and implementing requirements specifications from stakeholder use cases
- **IT & Technical Support**:
    - Confident in diagnosing and resolving both hardware and software issues
    - Facilitating system setup, management and end-user support for various workflows
- **AI & Machine Learning**:
    - **Reinforcement Learning**, Deep and **Machine Learning**, Prompt Engineering proficiency
    - Practical experience implementing and **evaluating** models with **PyTorch** and **TensorFlow**
- **Critical & Analytical Thinking**:
    - Strong **logical reasoning** and rigorous attention to detail
    - Capable of breaking complex problems into implementable steps
- **Communication & Documentation**:
    - Effective communicator with experience co-ordinating diverse groups and **presenting technical concepts clearly**
    - Proficient in **producing documentation** with meticulous precision using standard **Markdown** format
- **Adaptability & Continuous Learning**:
    - Quick to master new tools and paradigms through a **systematic approach**

Training and Education

10/2025-12/2025 **Just IT Training Ltd, London**
Digital Skills Bootcamp: Data Technician (8-week program)

- Data, Big Data, Data Structures, Data Architecture & Governance
- Data Analysis using MS Excel
- Introduction to Data Visualisation with MS Excel, Tableau, and Power BI
- Data Analytics – Power BI
- Introduction to Database – Access & SQL Assignment
- Azure Fundamentals – Module 1 – Core data concepts - Software SAAS, Cloud
- Azure Fundamentals – Module 2 – Relational data in Azure (DB)
- Azure Fundamentals – Module 3 – Non-relational data in Azure - Access (DB)
- Azure Fundamentals – Module 4 – Fundamentals of data analytics
- Data Analysis via Python programming – Utilising Pandas, Matplotlib & Seaborn

09/2017-07/2021 **University of Leeds, Leeds**
2:1 in Computer Science with Artificial Intelligence (BSc/MEng)

Core Modules: Advanced Software Engineering, Machine Learning, Data Science, Data Mining & Text Analytics, Big Data Systems, Web Services and Web Data, Knowledge Representation & Reasoning (KRR)

Languages: C, Java, C++, Python, SQL, JavaScript, HTML, CSS and TypeScript

Final Year Project: *"Exploring Curriculum Learning"*
Developed exploratory software applying **Curriculum Learning**, training agents on simpler foundational tasks before progressing to complex ones, **to improve reinforcement learning**. Tested in an OpenAI MuJoCo environment, this approach achieved **significantly faster convergence** and improved agent performance compared to traditional methods.

2015-2017 **Campsmount Academy, Campsall, DONCASTER, DN6 9AS**
A Level: A in Maths, B in Chemistry, C in Physics
Btec: D* in Cambridge National ICT

2010-2015 **Campsmount Academy, Campsall, DONCASTER, DN6 9AS**
GCSE: 10x A* to B GCSEs with an A in Maths and B in English
- A* in Physics, Chemistry, Biology, and Geography
- A   in Maths, Business, and Design Technology
- B   in English, History, and ICT

Employment History

07/2021-10/2025 **Career Break –**
Family Commitments, Medical Diagnosis, Self-Directed Learning

Work Experience

06/2014-07/2014 **Work Experience**
(1 week) **Axita Ltd, Doncaster**

- Shadowed an experienced technician, gaining exposure to core server and networking concepts such as internal and external ports, routing and routine maintenance workflows.
- Assisted with in-home client visits, helping to set up equipment and support customer service.
- Performed manual data capture with a systematic approach by researching local businesses to support lead-generation efforts; cross-checking to ensure data freshness, accuracy and veracity.

Interests and Hobbies

Outside of work and study, interests include social gaming, travel across the UK and abroad, and experiencing local culture and history with friends and family. As a life-long fan of One Piece, I am particularly motivated by ambitious, "impossible" problems, with patience that allows me to reap the satisfaction of iterating towards a solution.

Listening to music is a constant backdrop for deep work, helping sustain focus during long coding or research sessions. I also hold a strong interest in quantified–self style experimentation, using ad–hoc data capture and analysis (spreadsheets, scripts and dashboards) to optimise daily routines, health and productivity.

My free time often goes into exploring emerging consumer and enterprise technologies, green energy innovations, and modern software ecosystems across Linux, Windows, macOS and Android, with a focus on open–source tooling and communities.

Additional Info:
- During my career break I completed a foundational C# course through the O'Reilly Learning Path, building on prior Java and C++ experience.
- Considering relocation to S72 (Barnsley) and open to work in Sheffield, Leeds, York, and Manchester (hybrid).
- Available for interview immediately and can start with one week's notice.

References available upon request