Hector Pearson

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SUMMARY

I am a first year student at the University of Manchester, studying for a Bachelor of Sciences in Computer Science. I have a long-standing interest in technology and have worked in data engineering alongside work placements in cyber-security, software development and cloud. I am currently interested in exploring summer placements in technology with a focus on cyber-security and data science.

EXPERIENCE

Data Engineer
Aviva   06/2025 – 09/2025
                                                                        Norwich

- Maintained various data pipelines using snowflake, dbt Cloud and Apache Airflow in the Motor Insurance team.
- Developed a standardised Data Quality checking system that could be used across different pipelines, increasing data governance and ensuring clean data.
- Translated business analytical requirements into actionable data engineering solutions by partnering with stakeholders and leveraging Snowflake and dbt Cloud.
- Optimized data transformation workflows by implementing performance enhancements within dbt models, ensuring scalability and accelerating downstream analytics processes for Motor Insurance operations.

Continuous Software Development Work Experience
University of Cambridge   08/2022 – 08/2022
                                                                      Cambridge

- Developed software development skills using Git, Java and Jenkins whilst working in a software development team.
- Gained Bronze place in the Cambridge Computer Science Competition for my team's entry using C#.
- Improved my coding practices in a collaborative coding environment by adopting peer review processes and integrating continuous integration tools to strengthen code quality.

Technology Work Experience
Aviva   08/2022 – 08/2022
                                                                        Norwich

- Explored foundational concepts in cyber security, cloud computing, and software development through structured training sessions.
- Shadowed teams and scrum masters and spoke to professionals based both in the UK and India.
- Delivered a technical presentation on Internet of Things (IoT) to directors and divisional leads.

Big Data Work Experience
DigData   02/2022 – 03/2022
                                                                        London

- Learned how to spot patterns in large data sets, and applying this skill in real life situations.
- Investigated data patterns from training exercises to inform theoretically optimal locations for an ice cream stall compared to alternative options.

EDUCATION

Bachelor of Science
University of Manchester   06/2028
                                                                      Manchester

- Computer Science (BSc)
- 87% Average

A-level
Wymondham High Academy   2023

- Computer Science (A), Mathematics (A), Physics (B).

GCSE
Wymondham High Academy

Achieved five grade 9s and six grade 8s.

SKILLS

- Python, C++, SQL, CI/CD, AzureDevOps, Git, Snowflake, Apache Airflow, dbt Cloud, Arduino, Javascript, Bash

AWARDS

Best Implementation of Snowflake API
Major League Hacking (GreatUniHack)   09/11/2025