

# Piers Harris

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Enthusiastic computer science student eager to contribute to team success through flexibility and excellent initiative. Clear understanding of development and maintenance of both software and hardware and training in maths, logic and problem solving methods. Looking for a role in software engineering or data science.

## EDUCATION

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**Loughborough University**                      **BSc Computer Science and Mathematics**                      **2021-2025**

**Expected Result: 1<sup>st</sup>**, 1<sup>st</sup> achieved in both first and second years

Key Modules: Software Engineering 1-2, Data Mining and Machine Learning, AI Methods, Agent-Based Systems, Probability and Statistics, Databases, Team Project, Numerical Methods 1-2, Mathematical Methods 1-3, Computer Graphics, Computer Vision

**Reepham College**    **4 A-Levels**    **2019-2021**

Mathematics (A\*), Further Mathematics (A\*), Physics (A\*), Computer Science (B)

**Reepham High School**    **11 GCSEs**    **2014-2019**

Further Mathematics (A\*), Computer Science (8), Mathematics (9), English Literature (8), English Language (6), Biology (9), Physics (7), Chemistry (7), Religious Studies (5), Geography (5), Physical Education (6), Spanish (5)

## PROFESSIONAL EXPERIENCE

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**Intern Data Analyst for electronRx**  
October 2023 – September 2024

- Project lead on large technical projects (SpO<sub>2</sub> detection, blood pressure detection) - performed research and development for novel biometric projects
- Successfully executed solo projects such as chest analysis using computer vision techniques
- Organised and ran data collections on human participants
- Worked collaboratively within a scrum team
- Liaised with external researchers
- Productively worked remotely for 2 months

## SKILLS

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**Independent Working:** In my placement year as a data scientist, I was given the responsibility of managing several solo projects varying in size. One such project involved using computer vision techniques to analyse a user's chest to identify the most significant areas to track their breathing and generate accurate and useful biometric data. Although this project was larger and more complex than initially expected, I managed my time effectively and produced a successful algorithm that provided valuable data.

**Teamwork and Communication:** In my placement year, I worked within a data science team employing the scrum architecture. The daily stand-up meetings helped hone my ability to effectively convey progress updates and information to my team; as well as working alongside them throughout the day.

**Presentation and Documentation:** For all the projects I was involved in during my internship, I had to provide thorough documentation – especially because the projects were medical technology. I also provided regular updates to my manager and CEO by creating presentations to quickly convey the important information and progress reports.

<b>Analytical Thinking:</b>	For my placement year, I took a job as a data analyst. Every part of this role required the ability to think analytically: from using camera data to predict the oxygen content of blood to organising data collections.
<b>Problem Solving:</b>	Problem solving has been a major part of my studies, especially in sixth form and university and it is integral for solving mathematical problems and programming.
<b>Initiative:</b>	In my Team Project coursework at university, I quickly completed the work that I was assigned and, after making sure my teammates didn't need help, I decided to create an account page that I realised was needed for making a more functional website and was essential for achieving the highest marks. Because of this, we ended up getting 90% on the coursework.
<b>Flexibility and Adaptability:</b>	The majority of my time in college and my first semester at university were hugely affected by the Covid-19 pandemic. This meant I had to adapt to working from home which came with less support from teachers. I successfully adapted to this new way of learning which led to my high A-Level and semester one grades.

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## PROGRAMMING LANGUAGES

**Python:** I've been using Python since high school and it had been my go-to language throughout my education and especially in my placement year in which Python was the primary language used within my data science team.

**Java:** I have used Java often, including to make a car dealership management program for my OOP module and to make an image rectification program.

**HTML/CSS and JavaScript:** I began using these languages in college when making websites and have since used them to make a website in my Team Project module at university and to make my own portfolio website.

**SQL:** I first learnt SQL in college and then again in the Databases module at university and I used SQL to create and manage the database for my Team Project coursework.

**PHP:** I learnt PHP at university as part of my Team Project module and used it to communicate with the database in the Team Project coursework.

**MATLAB:** At university, I have developed my MATLAB proficiency in my Numerical Methods, Advanced Numerical Methods and Computer Vision modules in which I have achieved an average mark of 93.5% across MATLAB-based exams.

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## INTERESTS

I enjoy playing and watching many sports such as football and tennis. I have played for both my school football teams and am currently involved in a university football team which have given me invaluable experience in teamwork and commitment.

Over the past year I have also begun committing myself to regular gym sessions which has shown me the importance of dedication and perseverance. Usually I go with friends so that together we can support and push each other.

I also play musical instruments; I have been learning the piano since age four, and more recently teaching myself the trumpet. Through practising in my own time, I have also learnt to be self-motivated.

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## REFEREES

References are available upon request.