Solomon Wheeler

An outgoing, highly motivated, team worker, with a strong ability for communication and supporting the development of others. Highly technically competent, with a specific interest in data science, machine learning and problem-solving. An exceptional academic record and the enthusiasm to adapt to new challenges. Currently studying a degree in computer science at the University of Bath.

EDUCATION

University of Bath — *BSc Computer Science with Placement (Year 2)*

September 2021 – June 2025

First year results: Overall: **82%**   Predicted Classification: **First class**

Computer systems architecture 1 & 2- Hardware, architecture, data representation, C/C#: **81%**

Discrete mathematics and database - Sets, logic, maps, SQL, normalisation: **95%**

Principles of programming 1 & 2 - Programming in Python, Java, C: **81%**

Mathematics for computation - Linear algebra, matrices, sequences, series: **76%**

Artificial intelligence - Logical reasoning, probabilistic reasoning, machine learning: **84%**

Software processes and modelling - Agile development, software verification, modelling: **68%**

Second year units to be studied:

- Experimental systems project
- Machine learning
- Foundations of computation
- Fundamentals of visual computing
- Data structures and algorithms
- Functional programming
- Comparative programming languages
- Human-computer interaction and UX

The Emmbrook School

September 2016 - June 2021

A-level: Physics (A*), Mathematics (A*), Computer Science (A*)
GCSE: 9,9,9,9,9,9,9,8,7,7,A*,A

TECHNICAL SKILLS

I have a depth of experience working with Python, specifically with APIs, machine learning and data analysis, including packages such as Pandas, NumPy, Matplotlib, and Plotly. I have also programmed using Java, including multithreading and networking. During university, I have worked with creating hardware systems utilising C and Arduinos. I have applied these skills using Windows and Linux, as well as version control using Git.

PROJECTS

In my first semester, I worked as part of a group to create a security and fire alarm by connecting sensors, such as lasers and thermistors, to multiple Arduinos. I further developed this when I participated in the Bath Hackathon, where my team and I collaborated to create a smart doorbell; we did this by connecting Arduinos, motors, displays, lights, and buzzers. In my spare time, I also created an application which predicts how likely trains are to be late in python using machine learning and visualises this on a webpage. I enjoyed making a sudoku solver during my AI module, which used multiple techniques to solve the world's hardest sudokus in less than a second.

Skills & Interests

I hold a full UK driving license, as well as a level 3 certificate in workplace first aid. I have also received accredited training for various roles, including in safeguarding, data protection and disclosures. In my own time, I enjoy acting, as well as playing tennis and the guitar. In addition to volunteering for organisations like Scouts and the National Citizen Service, which has helped me develop my perseverance and collaboration.

Artificial intelligence is a particular interest of mine, including the societal impacts of artificial intelligence. I researched and wrote a thesis on this for a school HPQ qualification and continue to be interested in new developments.

Employment & other experience

Catch 22, Wokingham & Bristol — *Team leader*
June 2022 – August 2022
- I coached and mentored a group of 16-year-olds through a two-week period, including a residential. This was a rewarding experience that helped strengthen my leadership and communication skills.
- As well as ensuring the safety and enjoyment of those within my groups, I helped to facilitate a number of charity projects. These included raising more than £600 and donating feminine hygiene products to a homeless shelter.

Infinity Tuition, Remote — *Mathematics tutor*
June 2021—Present
- Working with several students to help improve mathematical skills, focusing on GCSE – A-level, and delivering excellent sessions by playing to my strengths, including my enthusiasm and ability to explain concepts.
- I have achieved exceptional results for my students, by also building upon skills I learnt as a trained peer mentor, Scout young leader, and helping in lessons at school.

Somethin' Else, London — *Audio editor*
December 2019 – August 2020
- I worked on the Youth Rising podcast, gaining valuable experience of working to deadlines in a business environment.
- I received professional training in audio editing, using Reaper, and social media promotion.

NCS, South East— *Regional youth board*
September 2019 – November 2020
- Working within a group to represent the voice of young people, including to the Government and BBC. I also lead a team as chair to deliver social action projects, such as a mental health day.

Qualcomm, Cambridge — *Work experience*
January 2017
- I completed work experience at Qualcomm in 2017, which allowed me to gain insight into numerous roles, including networking, chip design and product testing.

One Stop, Finchampstead — *Paper round*
March 2016 – June 2018
- I worked on weekends throughout this period to deliver papers in my local area, honing my timekeeping skills and responsibility.