

# Reuben Jack ATHERTON

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## EDUCATION

**Newcastle University, Newcastle Upon Tyne, UK** **Sep 2022 – Sep 2023**  
MSc Computer Science (currently studying)

**Newcastle University, Newcastle Upon Tyne, UK** **Sep 2019 – Jun 2022**

BEng Hons Electrical and Electronic Engineering– First Class Honours

*Overall – 76.6%*

- C and C++ projects including document string search tool (in C) and an OOP focused project using data structures (C++).
- Self-Driving Buggy – software development leader, designed PID control system using C++.
- MATLAB assignment cutting computation time of audio improvement by 50% using advanced filtering techniques. Achieved 90% in module.
- Bottleneck delay mitigation programme, written in C, implementing Asynchronous Communication Mechanisms (ACMs) into a pipeline using threads.
- Machine learning dissertation project developing software to provide insight into algorithmic decision-making using Python and C/C++. Achieved 86% grade on final paper.

**SAGE Data Insights Bootcamp, UK** **Jun 2021 – Jul 2021**

- Collaborated with Engie UK, analysing real-time data to present software solutions to an audience of 70+ parties demonstrating excellent communication skills.
- Developed data science skills using Python.

**Ulverston Victoria High School, Cumbria, UK** **Sep 2012 – May 2019**

- A Levels: Mathematics, Chemistry, Physics.
- GCSEs: Mathematics, English Language, English Literature, Chemistry, Biology, Physics, French, Geography, Religious Studies, Resistant Materials.

## WORK EXPERIENCE

**Siemens Energy, Cumbria, UK** **Jun 2022 – Aug 2022**

*Software Engineer Intern – Full Stack Development*

- Designed GUI using Python integrating SQL Server to facilitate data storage within relational database. Improved efficiency of recording test results by up to 60%.
- Created a database search tool application using C# with .NET to retrieve and display relevant test results from the database.
- Project was used as a template for full-scale digitisation of data collection within the department by the contracted information consultants, CGI.

**Bender UK, Cumbria, UK** **Jun 2021 – Aug 2021**

*Software Engineer Intern*

- Designed an interactive webpage that displays live data from on-site monitoring devices, allowing users to check connectivity status and set alarm limits.
- Automated the distribution of alarm reports using Visual Basic Application for Harpenden Network Rail Site, all of which are currently in use, demonstrating technical ability with legacy systems.

## SKILLS

- |          |                               |
|----------|-------------------------------|
| ▪ Python | ▪ Java (HackerRank certified) |
| ▪ C/C++  | ▪ SQL Server                  |
| ▪ C#     | ▪ MATLAB                      |

## VOLUNTEERING

**St Mary's Hospice, Ulverston, UK** **Oct 2017 – Mar 2019**

- St Mary's Hospice (2 hours every week) serving patients evening meals and socialising with them.
- St Mary's Hospice Charity Shop (2 hours every week) managing inventory, pricing donations and general customer service.