# Cuthbert Baines

## Computing graduate

**Cuthbert Baines**
Based in Sheffield
cuthbertbaines@gmail.com

https://cuthbert86.github.io/contents

https://github.com/cuthbert86/RiverProject/tree/5bb527966e99b66fc61f8fb2da7a2dc58475cefa/portfolio-20250224T133320Z-001/portfolio

## Skills

I've always had a job and I've got an excellent work ethic but I am new to the worki the computing sector. I've recently finished my university computing course so I'm looking for a job in the computing sector.

## Experience

**Company,** Corporation Nightclub — *Various roles.*
2005 - January 2019

**Company,** The Eighteen-ten — *Bar-restaurant staff*
February 2019 - February 2023

**Fir Vale Community Centre** / Skip supervisor
May 2025 - present, Page Hall

I'm current working part time helping to clean up one of the most deprived areas of Sheffield. They chose me to work for them because of my mental toughness.

**Wildscapes** / Conservation worker
July 2025 - present,
I've just started doing a bit of zero hours conservation work.

## Education

**Sheffield Hallam University** / Computing
september 2021 - May 2025, Sheffield Hallam University

**Foundation Year Modules include:**

Web technologies (html, css, Javascript)

Python (basics)

Databases

**Year 1 Modules include:**

Database and web (connecting a basic website to a database)

Software engineering (Programing basics using C#)

Information systems (Professionalism)

Python (again)

Cloud computing (theory)

**Year 2 Modules include:**

Systems Architecture (Django web-app)

Data Management (Python for Data analysis)

Integrated Systems (Python programming Raspberry Pi)

Development Project (Worked with outside client Aquasensor, used Python to collec data, make calculations and displayed data with node-red)

**Year 3 Modules include:**

Systems Architecture (Django web-app deployed to the cloud)

MicroComputing Prototype (MicroPython, Raspberry pico)

Introduction to Artificial Intelligence (various python based data analysis tools on google.colab)

Dissertation (MicroPython, CircuitPython, adafruit.IO, Pico)

## Personal Statement

My personal interests are mainly in the IoT space, I enjoyed working with micro-computers to create innovative solutions. My projects involved hands-on work with devices such as the Raspberry Pi Pico, using MicroPython to connect to WiFi, se data via MQTT, and interface with hardware components like LCD displays. I have a developed and maintained your own personal Micropython library, showcasing my ability to build and document reusable code for specific hardware applications.

Working in IOT involves collecting data, sending data, calculating data, displaying d and storing data. I used micropython/circuitpython to collect data, MQTT and PPP to send data, Python to make calculations with that data, Node-Red to display it on a l dashboard and sql to store it in a database.

I used Python to format and analyse data during the data management module. So of my best work involved making a python program that could convert a date colum and a time column into a single datetime column that was in .ISO format. I also use deque to create a rolling average of the data we were collecting.

I'm a problem solver so when I discovered a bug in the Micropython firmware that prevents it from sending data over public networks I switched over to using Circuitpython instead. When I realised that I wouldn't be able to use Node-Red to display the data on the public internet I used adafruit.IO instead.

Looking forward, I am open-minded and enthusiastic about pursuing a career in the sector. I'm a generalist rather than a specialist that still remembers what it is like t a complete novice so I can communicate with people who aren't experts in computi

## References

**I have a solid reputation at both my current and previous places of work and my manager has offered to write a letter of recommendation as required.**