

# Sebastian Southwell

2nd Year Computer Science Student

## Profile

An enthusiastic computer science student who has been programming for 5-6 years who constantly seeks out to explore and solve new problems.

Improves their skill set via participating and creating a variety of extra projects whether it is working on a computer vision system for autonomous drone engineering project, web scraping in Python or building a fully functional web-app using APIs and OAuth requiring self-teaching.

Looking for an opportunity to gain further experience in the world of software development and to improve engineering skills further by solving real world problems.

## Education

MComp Computer Science with Year in Industry, University of Sheffield

SEP 2020—PRESENT

Overall Prediction: First Class. Current first year grade average (83%).

Key Modules:

- Introduction to Software Engineering (92%)  
Includes a team software development project using Git version control, software lifecycles, client meetings and unit/feature testing.
- Devices and Networks (92%)  
Covers computing hardware, logic and networking basics as well as helping develop practical skills such as using Wireshark.

A-Levels and EPQ, Aquinas College, Stockport

SEP 2018—JUN 2020

- A-Levels: Mathematics, Computer Science and Physics (AAB)
- EPQ: Social engineering and Cyber security (A\*)

GCSEs, New Mills Secondary School, High Peak

SEP 2013—JUN 2018

- 10 GCSES, Grade 8 Computer Science and Chemistry
- Grade 7 Mathematics and Grade 5 English Language

## Experience

Imaging Systems Engineer, Project Hex, Sheffield

OCT 2021—PRESENT

- Working as part of a multiple disciplinary engineering team to build an autonomous drone using skills regarding teamwork and working under short timescales.
- Made suggestion for switching from Python to C++, which is carried out due to processor speed differences, to allow the drone to act faster in real time.
- In charge of researching datasets online for potential and adapting them for to be used by our current machine learning system.
- Acted resourcefully to help benefit the team via using other roles to produce a C++ workshop to increase the overall team skillset and increase their confidence to help us all reach a MVP sooner.

## Details

Email:

sas@sebasouthwell.co.uk

Phone Number:

Hidden on site to prevent spam

Portfolio Website:

sebasouthwell.co.uk

LinkedIn:

linkedin.com/in/sebasouthwell

GitHub:

github.com/sebasouthwell

## Certifications

Emergency First AID in Work:

St John Ambulance (2021-2024)

## Programming Languages & Frameworks/Libraries

C#:

WPF, Windows Forms, Console

Ruby:

Sinatra (MVC), Rails, RSpec

Java:

Console, Swing, JUnit

Python:

NumPy, Selenium, Jupyter Notebook

HTML

JavaScript

CSS

C++

SQL

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## Experience, continued.

Technical Events Officer, Sheffield Computer Science Society, Sheffield

OCT 2021—PRESENT

- Created a successful python introduction workshop, managed two successful “year in industry” workshops and currently creating a C++ workshop and a game jam requiring me to use a variety of skills including organisation and being easily adaptable towards unforeseen consequences such as absences etc.
- Responsible for delegating roles to other members such as for workshops to help reduce workload via the use of my communication, leadership, and problem-solving skills.

Inclusions Officer, Sheffield Ethical Student Hackers Society, Sheffield

JUL 2021—PRESENT

- Contributing new content the website using collaborative tools such as Git, and being able to quickly adapt to new frameworks such as Jekyll so I could easily make changes.
- Assisting in creating weekly sessions to help teach 10 people weekly new skills in ethical hacking including web-scraping, injections and other techniques via the use of organisational skills, quick learning and good communication between with other co-speakers.

Azure Cloud Engineer (Work Experience), Valueworks, Manchester

JUN 2017

- Tasked with setting up PowerShell scripts to dynamically create virtual machines on a Microsoft Azure Server to be logged in by employees remotely.
- Self-teaching PowerShell basics and Microsoft Azure on the job to create a brand-new Azure Server instance with pre-established user features and permissions requiring resilience.

## Projects

AnyQueue Spotify Controller System, Personal Project

MAY 2021

Built a system which allowed people to add songs to a Spotify queue via a web app for socials, during its first debut over 7 hours were requested. Original prototype took 2 days to produce in C# and was later remade in Ruby (Sinatra) using OAuth taking 2 weeks for the final version. Jekyll so I could easily make changes.

The final version of the AnyQueue system has been deployed to an AWS server under my personal domain: [anyqueue.sebasouthwell.co.uk](http://anyqueue.sebasouthwell.co.uk)

E-Mentor, University Group Project

SEP 2020 – JUN 2021

Managed a full-stack team project in Ruby (Sinatra) for a mentee-mentor pairing system and handled client meetings in a professional manner. The project itself was rewarded for its excellence with a 100% mark for the second semester.

## Other relevant skills and tools

Windows:

Batch Files, Processes, Permissions, PowerShell

Linux:

Bash Files, Permissions

Git

MySQL

Amazon Web Services

Microsoft Office

## References

Available upon request