

# Sebastian Richards

Portfolio Website: <http://www.sebastian-richards.com>

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## **OBJECTIVE**

Recently finished my MSc Computing at Cardiff University and will be graduating this September. I am looking to apply myself immediately in a developer position full-time to start my career and to continue to develop my skills.

**PROJECTS** – All projects can be viewed on my portfolio website linked above

### **Project 1 – Flask Social Network Microblogging Service**

The project allows users to create an account, login and create a post as well as comment and like these posts. The user can update their profile information by changing their profile picture and password. The users' passwords are encrypted using Bcrypt and all data is stored in a database using SQLite.

Languages used: Python, SQLite, Flask, HTML, CSS, Bootstrap uploaded on Heroku

### **Project 2 – Digital Twin for Microreactor**

This project allows users to input data to create a digital copy of a microreactor. Having collaborated with the Chemistry department this program uses a user interface and object orientated programming to encapsulate every attribute of a real-life microreactor.

Languages used: Python, Tkinter

### **Project 3 – 'Don't take that bait' Game**

This project is a 2d platformer inspired by flappy bird. The user presses the space button to keep the shark afloat and avoid the hooks and sea creatures. The game is coded in pure python with the pygame module, and the animations were drawn in pixelart.

Languages used: Python, Pygame

## **LANGUAGES**

Python, SQLite, HTML, CSS, JavaScript, Java, React, Flask, Django, Bootstrap, Heroku, Git, Linux, VS Code, Pygame, Tkinter, GSAP

## **EDUCATION**

MSc Computing – Cardiff University (2020-2022)

BSc Chemistry with Medicinal Chemistry – University of Warwick (2014-2017)

GCE Levels | Maths(A), Chemistry(A), Physics(B) – Royal Latin School (2012-2014)

## **PREVIOUS WORK EXPERIENCE**

- Noden Farms Daventry – Farm Worker (05/19 – 10/19)
- 20/30 Labs Northampton - Laboratory Technician (09/18 – 02/19)
- Find New Business Buckingham – Sales Executive (05/18 – 09/18)
- Abbey CE Academy Daventry – Teaching Assistant (01/18 – 05/18)