

# Freddie Butterfield

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## Education

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**University of Sheffield**, MEng Software Engineering (Computer Science) with a Year in Industry Sept 2021 – Jun 2026

- Notable Modules (& Grade): **Systems Design and Security** (62), **Data Driven Computing** (61), **Computer Security And Forensics** (77), **Software Testing and Analysis** (71).

**Bradford Grammar School** Sept 2013 - Jun 2021

- **A-Levels:** Computer Science, Maths, Physics, Extended Project Qualification (A\*AAA)
- 10 GCSEs achieved 9-6 including Computer Science, Mathematics, Physics and English

## Experience

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**QA Engineer**, Hewlett Packard Enterprise – Bristol, UK July 2024 – Present

- Developed a full system test in **Python** capable of covering three separate test cases that perturb the compute nodes of a storage array controller during data transfer from an old array to a new one.
- Deployed AWX with **Kubernetes** to simplify the process of configuring and maintaining Linux test infrastructure previously done using manual **Ansible** playbook execution.
- Helped to introduce linting to the team in order to ensure the production of clean and maintainable code.
- Organised numerous charity events including dodgeball, sports day, and a formal gala event.
- Worked simultaneously with multiple development teams, and was recognised for this with an award at the end of the internship.

**Undergraduate Demonstrator**, University of Sheffield, UK Sep 2023 - Dec 2023

- Aided students in their weekly **Java** exercises, with the exercises getting increasingly difficult.
- Motivated by a desire to demonstrate and improve my teaching skills.

## Projects

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### Dissertation Project

- Developed a "lyrics-based" music recommendation application in **Python**, achieving a grade of 68%.
- Compared the performance of Latent Dirichlet Allocation, Word2Vec, and GloVe in their ability to produce accurate vectors that represent the words in a song.
- Conducted a user survey to assess the performance of the application, with 71% saying they would use it again.

**"Rate My Deal"** (Link to Repo)

- Developed a basic web application that lets users post a Tesco "Meal Deal" combination for other users to comment on as a fun side project
- Used Python and Flask to write the application. MongoDB was used to store the data. Containerised the application using **Docker**.

## Skills

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**Languages:** Python, Java, C#, Ruby

**Industry Tools & Standards:** Agile, Jira, Trello, Git (GitHub, GitLab)

**Scripting & Automation:** Ansible, Bash

**Infrastructure:** Linux maintenance, Docker, Kubernetes

**Databases:** SQL (SQLite, MySQL, PostgreSQL), MongoDB