

Kieren Spittles

Aspiring Developer & Software Engineer

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SUMMARY

Hard working individual with excellent problem-solving and mathematical knowledge. Particularly enjoys back-end, computational development. Has a thirst for learning new things and does so quickly. Currently looking for a temporary position in an IT related field to gain relevant experience. In the future aims to complete a PhD in machine learning, or begin a career in software development.

EDUCATION

Computer Science Msc - Distinction - 2020-2021

Swansea University

Thesis Developing novel query strategies for Active Learning - Worked with EMRTS to create a prediction app to assist control room staff.

- **Distinction in every module**
- Notable modules include:
 - Software Engineering Principles [84%]
 - Optimisation [89%]
 - Relational and Object Orientated Databases [91%]
 - Data Visualisation [89%]

Physics Bsc - 1st - 2017-2020

Bachelor, Swansea University

Thesis Simulating models for cosmological inflation

- Notable modules include:
 - Physics Simulation [81%]
 - Particle Physics [100%]
 - Cosmology [84%]

A-Levels & GCSE's

Bideford College

- A Levels:
 - Physics - B
 - Mathematics - B
 - Further Mathematics - C
- 12 GCSE's A*-C:
Notably A* in Physics and Maths

Voluntary Work

Throughout my time in education has been an active member of the student body.

Student Representative - 2020-2021

Ran a successful campaign to be elected as a student representative for the course. Due to the impacts of

COVID, the primary focus was on building an online community. Helped to facilitate discussions between students and staff in order to improve the student experience, and worked with staff members to resolve any issues brought forward. Worked along side another student representative to form a server that acted as a point of contact between all students and lecturers on the course. This server has now been adopted as the primary method of communication for subsequent years.

[Communication](#)

Social Secretary - Curiosity - 2019-2020

Co-Founded a brand-new society centred around devising and designing solutions to a range of STEM problems. Helped plan and organise multiple events, whilst collaborating with other team members. Gained £500 in funding to allow the society to compete in the UAS drone building event. Unfortunately the event was cancelled due to COVID.

[Team-work](#) [Organisation](#)

Social Secretary - PhySoc - 2018-2019

Planned and organised events for the society. This included events such as quizzes, studying/tutoring sessions, and the annual formal. Collaborated with various organisations in a professional manner to arrange and run events. Being social secretary also enhanced my organisation skills. Improved organisational and administrative skills such as submitting forms, emailing and ensuring things were promptly prepared.

[Organisation](#) [Networking](#) [Time-Management](#)

Teaching Assistant

Alongside A-level studies, regularly spent free periods assisting the teaching of mathematics to younger students including presenting a series of lessons on the equations of motion. This involved planning an engaging lesson, and accounting for varying levels of ability.

[Communication](#) [Teaching](#)

WORK

Retail Assistant / August 2019 - July 2021

Tresspass - Swansea

Primary responsibility was serving customers at the till. Restocked and replenished the shelves when necessary. Also trusted to do the banking, which involved handling large quantities of cash. Gained and utilised a large amount of product knowledge whilst working here and used this knowledge to best assist and recommend the ideal products for customers. Helped re-arrange the shop for each season, holiday and sale.

Customer Service Communication

Kitchen Staff

Hoops Inn - Bideford, Devon

Worked part time during college, and full time during the holidays. Work included maintaining the hygiene standards of the kitchen, along with a large amount of food preparation. Additional responsibilities consisted of preparing starters, deserts, and fried foods. Worked effectively in a high pressure situation, as part of a team, and met strict deadlines.

Time-Management Teamwork

SKILLS

Languages: Python, Java, HTML, CSS, MySQL

Tools: NumPy, Pandas, scikit-learn

Other: Version Control, Web, Data science and ML, Cloud computing

OTHER PROJECTS

Worked on a range of other projects. These projects have provided experience working in professional IT set-

tings. Examples of my work can be found on my github repository.

Freelance Web Developer

Woolsey Parish Council

Built and maintained a website for the local parish council to provide a platform which allows engagement within the local community. Worked closely with the council clerk to train members on editing the page including adding minutes for meetings and local event advertisements. Regularly assist the council in updating the page, and keeping the website up to date with the current government guidelines for accessibility.

Academic Papers

Machine Learning

Currently part of an associate research team with Swansea University. The current paper proposes a novel approach for uncertainty estimation in a Bayesian optimisation framework. The aim is that this work will be submitted for the GECCO 2022 machine learning conference. This has provided me invaluable experience in developing software as part of a team, as well as using software version control (git) and working on a super-computer.

Research Data Analysis Problem Solving

App Development

Enjoys working on a multitude of software projects. Most notably, working with a team on an innovative piece of software which assists weight lifters at the gym. The app accurately tracks the bar's path during various exercises, and provides real time feedback.