# JACK PHILLIPS

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## University of Cardiff
MSc Software Engineering

2025 - 2026

Agile Software Development:

Web Applications:

Programming principles and practice:

DevOps:

Manipulating and exploiting data:

Delivering User Experience:

Dissertation:

## University of Salford
BSc Physics

Final Grade: 2:2
(58.54%)

Education University of Salford physics society president for academic year 22/23 – In charge of organising socials, seminars and study groups

Project in physics: Dissertation on the properties of liquid propane at high pressure using a diamond anvil cell and presentation/defence (70%) – Data analysis done using Excel and Magic Plot as well as a lot of hands on experience using precision instruments to set up cells for measurement also lead to contribution on a submitted academic paper named below as contributor for Formal analysis (supporting), Investigation (supporting) and Methodology (supporting):

*All-optical method to directly measure the pressure-volume-temperature equation of state of fluids in the diamond anvil cell, J.E. Proctor, C.E.A. Robertson, L.J. Jones, J. Phillips, K. Watson, Y. Dabburi and B. Moss, Physics of Fluids (published on new scientist)*

Physics Laboratory: Computational Lab focussing primarily on using MATLAB to perform complex calculations and model chaotic systems (70%)

Notable coursework grades:
Condensed Matter physics (69%) primarily focused on using Microsoft Excel to analyse data surrounding the empty lattice electron band structure of aluminium and the effective mass and cyclotron resonance.

Astrophysics and planetary physics (63%) primarily asked about using MATLAB to plot spectra of unknown stars and using the spectra plotted to determine the elements present in the stars as well as details such as age etc.

## NPTC College

2019-2020

Physics, Chemistry, Biology, Psychology, Maths

Grades 45 credits at distinction or merit

Access to HE – science course completed almost all credits at distinction, allowed me to further my academic ability as the course was primarily coursework based with no exams. Notable skills from this include group projects, presentation skills and time management.

## St Joseph's catholic school and sixth form centre

2016-2018

Physics, Math and Computer Science

Grades U, U, E

During computer science coursework build a program to manage a database of cars and the details around their sale points using visual basic.

## Professional Experience

### Tesco Express Multiple locations

Jan 2022 – March 2022 and June 2019 - May 2020 · 13 months

Customer Assistant

- Organising stock
- Taking delivery
- Working Tills and customer facing jobs

### Tesco Superstore Port Talbot

June 2024 – June 2025 · 12 months

Merchandiser and Customer assistant

June 2024 – June 2025

- Using plans to organise stock on promotion
- Updating price integrity labels to ensure store stayed compliant with price changes
- Organisation of stock for seasonal changes, and executing the seasonal plans

Extracurricular Activities: Selected for Wales basketball U18's (2016), Captained Baglan Blazers basketball (2014-2017), Currently informally studying Japanese and Korean languages, Studying GoLang, Python alongside degree materials.

Hobbies: Bouldering, Travelling, Gaming, Building PC's, Golf, Football and Basketball.