DAFYDD-RHYS **MAUND**

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Profile

I am a motivated software engineer with a **First Class Honours** in **BSc Software Engineering (77.72%)** and currently pursuing a **MSc Data Science** at **Swansea University**, where I expect to achieve a First. I have hands-on experience with data science and analytics, alongside strong full stack development skills from projects and coursework's.

Having already earned an **IBM Data Science Professional Certificate**, I am keen to expand my expertise by pursuing certifications in **Machine Learning** and **AI**, including IBM specialization courses. Post-Masters, I aim to join a graduate scheme with strong career development opportunities, where I can apply my analytical, problem-solving skills, and contribute to innovative, scalable solutions in data-driven fields.

Education

Swansea University · MSc Data Science · First Class Honours (pred.)	Sept 2024 – Sept 2025
Swansea University · BSc Software Engineering · First Class Honours	Sept 2020 – June 2024
Coleg Gwent · A-Levels · AABB	Sept 2018 – June 2020
Computer Science · Welsh Baccalaureate · ICT · Geography	
Brynmawr Foundation School · GCSE · 4As 8Bs 2Cs	Sept 2013 – June 2018
Passed All GCSEs including Maths, Numeracy, English, ICT, Physics	

Notable Modules

· **Project Planning and Management:** As team leader in the Project Planning and Management module, I guided our team in project development, role allocation, and budget management. We implemented scrum methodologies, managed the project end-to-end performing critical tasks such as risk analysis and timeline, and delivered a comprehensive report and presentation. I achieved **83%** in the module.

· **Web, Game & Mobile Development:** I completed full stack development for various applications for a variety of systems, handling backend and frontend creation, system testing, and peer code reviews. I achieved **97%** in web development, **88%** in game development and **84%** in mobile development.

· **Software Testing:** I gained a thorough understanding of key software testing methods, including Functional Testing (Boundary Value, Equivalence Class, Decision Table-Based), Structural Testing (Path and Data Flow), and Integration and System Testing. Covering Object-Oriented Testing and explored topics like Testing Hybrid Systems. I achieved **79%** in this module.

Other Modules: MSc Project, Project Dissertation, Machine Learning, Optimisation, Operating Systems and Architectures, Modelling and Verification Techniques, Project Research Methods, Data Mining, Data Visualisation, Computer Vision and Deep learning, Project Specification and Development, Algorithms, Database Systems, Software Engineering, Declarative Programming, Computer Graphics, Web Service Development, Concurrency, Programming, Concepts of Computer Science, Modelling Computing Systems and Professional Issues.

Notable Projects

Sync Media Player A synchronized media player allowing multiple users to watch and listen to media sourced from a variety of external sources while being able to socialise together.

Social Post App A full-stack web application allowing users to create, manage, like, dislike, comment and share posts with implementation of searching, filtering and APIs.

Sphere Ray Tracing An application using complex mathematics to implement ray tracing to adjustable spheres which dynamically alter based on adjustable light and camera settings.

CredLock Manager A password manager, having a login system with email verification and encryption

PC Cleaner A computer cleaning and resource management system.

Check GitHub for full projects list: **github.com/dafydd-rhys**

Technological Related Skills

Languages: Java, JavaScript, C#, Kotlin, Python, Haskell, Prolog, PHP, HTML, CSS
Frameworks: Laravel, React, Express.js, NodeJS, Spring, jQuery
Technologies: Git, IntelliJ, LabView, VSCode, Android Studio, Unity, MySQL, Firebase
Other: UX & UI design, Code Quality Management, Version Control, Documentation
Non-Technical Skills: Highly Analytical, Logical & Creative Problem Solving, Flexible & Adaptable, Attention to Detail, Communication, Time Management, Documentation Management, Hardworking, Quick to Identify Issues.

Work Experience

McDonalds · Crew Member   Sept 2019 – Sept 2020
Morrisons · Crew Member   May 2023 – Nov 2023
Farmfoods · Retail Assistant   July 2024 – Oct 2024

Attained Skills: Communication, Organisation, Problem-Solving, Teamwork, Adaptability & Flexibility

Certifications

Data Science Professional Certificate by IBM · 6-month comprehensive program covering Python, SQL, Data Analysis and Machine Learning providing hands on experience with projects and foundational skills in data science.

Git and GitHub Certificate by Google · Teaches Git versions control and GitHub collaboration for managing code.

AI Infrastructure and Operations by Nvidia · Teaches deploying and optimizing AI models with GPU acceleration.

Relevant Accolades

Best Speech Award · Best speech about dissertation at Baskerville (**Cohort 3**)

Team Leader Award x2 · Team leader of 2 separate game development teams (achieving **100%** and **96%)**