

## **Sean McKenna**

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### **Personal Profile**

I am a hardworking, determined and fully committed Computer Science graduate who is always looking to gain new experiences. I enjoy taking on new challenges and learning new ways to approach and solve problems and have finished my master's degree at Liverpool Hope University for Advanced Computer Science. I am searching for opportunities that can benefit my future career.

### **Education**

#### **Liverpool Hope University, 10/2021 – 10/2022**

MSc Advanced Computer Science – Distinction (82%)

Relevant Modules:

- Dissertation – Using Proximal Policy Optimisation to play Sonic the Hedgehog (92%)
- Internet of Things – Developed a Machine Learning algorithm with an Arduino BLE Sense to generate and predict weather data (92%)
- Virtual Reality – Developed a phobia exposure therapy simulator in Unity VR (92%)
- Artificial Intelligence (Achieved A+ in the exam and B+ in the coursework)
- Theoretical Computer Science (Achieved A++ in the exam)
- Numerical Methods (Achieved A++ in the exam)
- Big Data Analytics – Created code in Apache Pig to analyse big data about video games sold across the globe (84%)

#### **Liverpool John Moores University, 09/2018 – 06/2021**

BSc (Hons) Computer Science – Class 1 (70%)

Relevant Modules:

- Dissertation – Exploring how Recommendation Systems can aid individuals with Culinary Planning (68%)
- Introduction to Programming (95%)
- Computer Systems (82%)
- Introduction to Internet and Web Development (73%)
- Knowledge Based Systems (80%)
- Database Systems (71%)
- Computer Science Applications (78%)
- Graphics and Data Visualisation (70%)

#### **Blessed Thomas Holford Catholic College and Sixth Form, 09/2011 – 06/2018**

A-levels: 3 GCE A-levels in Maths (B), Computer Science (C) and Physics (C)

GCSE's: 10 GCSE's grades A\*-B including grade A\* in English Literature and B in Maths

## **Work Experience**

### **The Christie NHS IT Department, June 2017**

- Worked with the team to image new computers for the staff, assign new devices to the database, and shadowing a Python Programmer.

### **Blessed Thomas Holford Sixth Form IT Department, June 2017**

- Organised workloads and managed time efficiently by prioritising tasks.
- Co-ordinated effectively with different individuals to ensure the processes were successful.

## **Past Employment**

### **Matalan – General Sales Assistant, June 2019 – July 2019**

- Assisting customers with queries and any help they may need.
- Ensuring the shop floor is safe for customers.
- Restocking products from the warehouse to the shop floor for customers.
- Interpersonal skills with customers, managers, and colleagues.

## **Technical Skills**

- Java programming – Eclipse Oxygen, methods and classes, File manipulation, selection, and repetition. Created an eGym System in Java as a side project.
- Experience with version control using GitHub, used for projects during university and for side projects outside of university.
- Python programming - utilising classes, subroutines, and modules such as SQLite3, and Machine Learning with SKLearn, Pandas for an IOT project in university.
- Created a PPO (Proximal Policy Optimisation) Reinforcement Learning Artificial Intelligence in Python using stable baselines, TensorFlow and TensorBoard.
- Functional programming in Hope Interpreter – utilising polymorphic, recursive, and higher order functions as well as lambda expressions.
- Proficiency in Microsoft Office applications such as Word, PowerPoint, Excel, and Access.
- Database skills – creating tables, procedures and triggers in databases using MySQL as well as implementing NetBeans which extends the usability of the SQL code.
- Web Development skills – using HTML and PHP to create a website for game reviews, utilising Cascading Style Sheets and JSON files to import data to the website.
- Experience with virtual machines, using VirtualBox and WSL2 to create a virtual environment using Linux
- Big Data programming with Apache Pig – used to analyse massive datasets and obtain information from them
- Unity Experience – Created a VR exposure therapy simulator to expose users to common phobias such as spiders, heights, and enclosed spaces.

## **Additional Skills**

- Management skills have improved at university by using a time planner to give me enough time to complete certain tasks so I can submit my work in respectable time.
- Work well under pressure due to increased University deadlines, as I had to hand in work for multiple modules and needed to balance all my modules to get everything completed on time.
- Organise time commendably because of having multiple modules that need to be completed at specific times.
- Analysing user requirements for the project in the Computer Science Workshop module e.g., making the program autonomous and more efficient than the current model.
- Developing existing programs by analysing and identifying areas for modification in university modules.
- Team working skills were enhanced when I was appointed as the leader of the Artificial Intelligence project for the Computer Science Workshop module.
- Communication skills have improved as I was a course representative during my master's degree, where I had to attend regular meetings with the lecturers and faculty of technology to ensure that all students are satisfied with the teaching and asking the students on what can be improved in the university.

## **Interests and Hobbies**

- Completed the JP Morgan Chase Software Engineering Virtual Program.
- Passion for Java and Python programming.
- Passionate about technology and computing devices, added components to my laptop such as M.2 SSDs, as well as adding a GPU and CPU cooler to my desktop PC.
- Created a zombie map for the video game Black Ops 3 with university colleagues.
- Passion for fitness and powerlifting.

## **Digital Code Portfolio**

GitHub account: <https://github.com/Sean-404>

## **References**

Chris Wren: senior lecturer, 0151 231 2110, [C.Wren@ljmu.ac.uk](mailto:C.Wren@ljmu.ac.uk)

Dr Neil Buckley: lecturer and subject lead in Computer Science, 0151 291 3978, [bucklen@hope.ac.uk](mailto:bucklen@hope.ac.uk)

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