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 – Grade pending

Relevant Modules:

- Dissertation – Using Proximal Policy Optimisation to play Sonic the Hedgehog (grade pending)
- 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.

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

LinkedIn account: https://www.linkedin.com/in/sean-mckenna-3b5ab0196/