

Owen Shaw

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Portfolio: <https://oshaw1.github.io/>

Profile

As an aspiring software developer, I am a dedicated learner and am always seeking out new technologies and emerging trends in the field. I have a deep understanding of various programming languages, including Python, Java, HTML, CSS, MySQL, XML, C#, .NET, and C++. Additionally, I have extensive knowledge of cloud-based systems and experience with Linux-based systems, including using GIT.

During my university degree, I completed a range of projects that demonstrate my passion for software development and machine learning, including emotion recognition in video feeds using neural networks and designing and implementing AI techniques against large-scale, real-world datasets.

I have excellent communication skills and can communicate clearly and with conviction, even in stressful environments. I have experience working as part of a team, both in my restaurant and bar experience and in completing group assignments over the course of my degree.

Relevant key skills

Communication

- Able to communicate clearly and with conviction across all my job roles even in stressful environments.
- Delivered many presentations across the course of my degree and have delivered them clearly reflected in the mark given by my tutors.
- Multiple group projects in which I have been tasked with maintaining productivity through communication with my peers.

Teamwork

- Worked as part of a team in all my restaurant and bar experience working closely with all other members of staff.
- Completed group assignments over the course of my degree which included producing code, presentations, testing AI algorithms on given datasets and did so to achieve good marks in these assignments.

Programming

- Over the course of my university degree, I have learnt and got a deep understanding of many different programming languages in a variety of different modules.
- I have knowledge of the following languages: Python, Java, HTML, CSS, MySQL, XML, C#, .NET, C++

Technical Knowledge

- I Have extensive knowledge of Cloud based systems. As well as experience using a Linux based system both with GUI and through the terminal.
- I also have experience using GIT

Machine Learning / Neural Networks Knowledge

- I have knowledge of multiple different ML algorithms and have learnt to apply them in a variety of different situations across my university modules, I also specialised in ML for my dissertation utilising neural networks to create an emotion recognition AI.

Projects

- **Final year project (Emotion recognition in video feeds using neural networks)**
For this project I developed a neural network to analyse emotions via a webcam. I did so by training the algorithm using image-based datasets and then performing analysis on a range of different neural networks and machine learning algorithms.
- **Intelligent systems**
For this project I used a range of machine learning algorithms to design, implement and evaluate AI techniques against large-scale, real-world datasets (e.g., amazon product reviews) and critically analyse the strengths and limitations of these AI techniques.
- **Complex systems**
For this project in a group, we were tasked to develop a complex system using a multitude of tools including but not limited to: Azure, HDFS, SQL, Hadoop. Additionally, as a group we were tasked with implementing and testing a range of functionalities into the system and creating the designs for the system.

Education

Bachelor's in Software engineering Edge hill university (2:2 58%) –

Modules across 3 years:

Year 1:

Programming concepts to construction 1
Programming concepts to construction 2
Web Design & Development
Foundations of Computer Science
Digital world: Information systems & design
Digital world: Computer Architecture & Networks

Year 2:

Object orientated programming.
Mobile Apps
Introduction to software quality assurance and testing
Employability
Databases

Year 3:

Research and development methods
Research and development project (Emotion recognition in video feeds using AI)
Intelligent systems
Embedded systems software development
Complex systems

A-Level or equivalent in Computing John Rigby college (D*D*D*)–

Wigan
September 2017 to August 2019

GCSE or equivalent in 7 GCSEs B-C St Edmund Arrowsmith Catholic High School –

Wigan
September 2012 to July 2017

Work Experience

Bar Staff Lyme tiger –

Ormskirk June 2021 to July 2022

Kitchen Porter/Cook Sinners club Burscough –

Burscough October 2019 to September 2021

Kitchen Porter Barnyard Ormskirk –

Ormskirk October 2020 to January 2021

Certifications and Licenses

MTA: Security Fundamentals - Certified 2021 January 2021 to Present

Quote given by Microsoft "Earners of the MTA: Security Fundamentals certification have demonstrated fundamental security knowledge and skills. The MTA program provides an appropriate entry point to a future career in technology