Jacob Morgan

Basic Info

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I am a final-year student at the University of Lincoln studying Computer Science writing my undergraduate dissertation in machine learning. I would describe myself as a logical and competent person in any working environment and I can focus on tasks given and those that are pending also, and I am eager to ultimately excel in a career in Computer Science – the subject in which I currently specialise. I am currently looking for software engineering positions for after my studies

Education

2020-2023 | **BSc (Hons) Computer Science**
University of Lincoln
First (Expected)

2018-2020 | **Sixth Form**
Sir Thomas Wharton Academy
Applied Science - DM
Computer Science - B
Science Investigation Skills - M
Priciples & Applications - M

2013-2018 | **GCSE**
Sir Thomas Wharton Academy
Maths - 6
English - 5
Science - 5
Computer Science - 6

Tools I'm Familiar With

Languages | Programming - Python, C#, C++, Matlab, SQL, bash/shell
Markup - LaTeX, Markdown, HTML, CSS
Config - TOML, YAML, JSON

Software | General - ssh, Jupyter, Visual Studio Code and Community, Unity, Github, git, Docker
OS - Windows and Linux (Ubuntu)

I am also familiar with using APIs, VPSs and Virtual machines

Projects

Apr 2023 | $\hat{\lambda}$
A Lambda Interpreter written in Python

Mar 2023 | **Digital Image Enhancement**
An implementation of histogram equalisation on an intensity histogram to intensify an image. This used C++ and Open Cl

Jan 2023 | **Machine learning Algorithms**
This is an implementation of machine learning algorithms, such as k Nearest Neighbours and Decision trees in Python
Received 82.5/100

Dec 2022 | **Image Segmentation using MATLAB**
The aim of this was to segment the swan from the image using MATLAB and Image processing techniques.
Received a 70/100

May 2022 | **Artificial Neural Network in Python**
This project was a full neural network, implemented using Python and its Math module.
Received an 80/100

Jan 2022 | **SQL Banking Database**
This was a mock database of users and transactions made in SQL
Received a 60/100

2018 | **Bus time table**
A traditional Bus time table made for my desktop. I made this using a Raspberry Pi 3 and an LCD screen. This also used Python to fetch the information from an API.
Unfortunately I don't have any images of said project currently.

Hobbies

- Music, I play guitar and other instruments, I also write music in my spare time
- Fitness, I enjoy strength training three times a week
- I also write my own software for fun mainly in Python.
- Reading

References

- Email me if you are interested in me. I can refer to someone who can vouch for me.