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| Liam Hodge

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**SUMMARY**

As a recent graduate in computer science, I am focused on becoming a highly skilled and knowledgeable professional in the field of computing. Throughout my studies, I have gained experience working with a range of programming languages and frameworks to build systems and websites for work assignments. Alongside my project-based accomplishments. I approach every project with a growth-oriented mindset, eagerly embracing opportunities to expand my expertise and address any gaps in my knowledge, demonstrating a steadfast commitment to continuous learning and professional development.

**EDUCATION**

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|  | **MSc Masters**: Computer Science**Birmingham City University**- United Kingdom, Birmingham.**Grade-** Distinction (1st equivalent).**BSc Bachelor of Science with honors**: Sound Engineering and production**Birmingham City University**- United Kingdom, Birmingham.**Grade-** 2:1 |

**UNIVERSITY PROJECTS and grade**

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|  | **Masters Final Project (Transformer model for chatbot implementation and virtual assistant feature)*** Building, Training, and testing a Transformer machine learning language model. Implemented as a chatbot with intent recognition.
* Separate natural language model built, trained, and tested for the intent recognition, that sets off certain functions for the user.
* Graded at 74 (1st)

**AI module project (Novel bidirectional LSTM architecture for music genre classification)*** Music genre audio classification, though implementing a novel Bidirectional recurrent neural network.
* Gathering audio dataset for pre-processing and signal processing for data augmentation
* Googles TensorFlow module used to build and design the architecture.
* Serval tests showed that this outperformed (at the time) current similar classification models on the same database.
* Graded at 82 (1st)

**Software development module project (Library system backend, database implementation)*** Developed and engineered a library system in python, while using SQL (MySQL connector) to keep a database of users and library data.
* Graded at 71 (1st)

**Undergraduate final Project** * Researching piano note transcription, implementing googles machine learning models. Graded at 65 (2:1)
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**CERTIFICATIONS/ SKILLS**

* Database design *(certified from university module)*
* Machine Learning Algorithms *(certified from university* *module)*
* Software lifecycle and project management *(certified from university module)*
* Cisco python 1 & 2 Certified

 **PROGRAMMING LANGUAGES/ TECHNOLOGIES**

* SQL
* HTML
* CSS
* Python
* C++

**WORK HISTORY**

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|  | **Configuration Technician, Full time–** 11th March 2024 – 26th March 2024**Corcoran Yates –** Cwmbran* This role entailed Systems installation for embedded devices.
* Testing functionality and setting parameters for devices, with computer-based equipment.
* Using specialized equipment to configure, test and troubleshoot embedded devices.

**Customer Service, Full time–** 21st November 2023 – 10th March 2024**The Range -** Cwmbran* My duties at the range include giving excellent customer experience and communicating with shoppers.
* For most of the time I switch between the tills, customer service desk and the shop floor regularly, especially during the busy winter season.
* In this job I am given multiple responsibilities for merchandising and pricing the products, in a very fast-paced environment.

**Bar Staff, part-time –** 2022 (During university summer break)**Rising Sun-** Abersychan* My duties include Serving Drinks, greeting customers, taking food orders, and waiting at tables, while working in a fast-paced Environment.
* I also had cleaning duties that included the entire bar at the start and end of shifts.
* While working at this bar, I’ve come into many situations where I have needed to rely on my communication skills, conflict resolution skills and level-headed decision making.

**Store Assistant, part-time –** 2018 (while attending college) **Vue Cinema-** Cwmbran* Mainly, I worked on the tills at the front desk, assisting customers with buying tickets and serving food/ confectioneries.
* I was also assigned to do security and floor/ cinema work. This included seat checking, gatekeeping, and cleaning cinema rooms quickly for the next viewing.

**Café Assistant, part-time –** 2016 – 2022**Polo Grounds Diner-** New Inn, Pontypool* Main duties included washing dishes, taking plates from the customers and general cleaning.
* While working as a kitchen assistant, I was also the delivery driver during covid lockdown. This was especially fast paced with the popularity of the diner and me being the only delivery driver they had at the time.
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| **HOBBIES/INTERESTS** |  |
|  | **Music and instruments-*** In my spare time, I’ve taught myself how to play guitar, bass, and saxophone.
* In my free time I go to open microphone events and perform several songs at these local events.
* In college, I helped as a sound and lighting technician for shows that the college hosted in their theatre.
* I’ve produced with numerus bands in college and university, communicating with many musicians at a semi-professional level.

**Personal wellbeing*** It is important to me to maintain a healthy body and mind. I attend a gym 4-days a week to train to maintain strength and fitness.
* I also take care to eat a healthy diet. During my student years I have become more interested in cooking and trying out different recipes.
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