

## EDUCATION

---

Leicester, UK	De Montfort University	Sept 2021 – Sept 2022
---------------	------------------------	-----------------------

**Degree:** MSc Computing

- **Current Grade:** 1<sup>st</sup>
- **Relevant Modules:** Object Oriented Programming (Java), Computer Systems and Networks (Linux Ubuntu), Database Systems and Design (SQL), Systems Analysis and Design (UML)

**Degree:** BSc Music Technology

Sept 2016 – June 2019

- **Grade:** 2:1
- **Relevant Modules:** Web Development (HTML, CSS, Java Script), Embedded Systems (Arduino Programming)

## RELEVANT TECHNICAL EXPERIENCE

### Personal Projects

#### Musical Piano Game

- Proposed a solution for people who quickly drop out of their piano lessons (in form of a 2D game)
- Developed an application that helps people learn keys, intervals, and chords on the piano for a research project at the university.
- Results: 20 out of 20 research participants ( complete piano beginners) learned basic musical concepts within two weeks and became fairly confident in recognizing and locating white and black keys on the keyboard
- Plans: Improve the game and release it on IOS/Android.
- Utilized: Visual Studio 2019, Unity 2D, C# Scripting

### University Projects

#### Object-Oriented Applications

- Developed several object-oriented representations in Java of the real-world scenarios such as the stock market data processor, hospital booking system, cinema booking system, and car dealership business
- Integrated the UML diagrams to support the justification of association between classes.
- Created API documentation for the applications to conform to OOP conventions.
- Implemented suitable collection framework data structures such as Array List, LinkedList, HashMap etc.
- Implemented key OOP principles: Abstraction, Encapsulation, Inheritance, and Polymorphism.
- Utilized: Eclipse IDE, Java, UML notation.

#### Computer System and User Activity Monitor

- Developed a script in Linux that monitors key operating system details and automatically provides a well-structured report in the log and Html files.
- Integrated a Bash Script with a series of commands that produce a reader-friendly output in the log file with detailed information about the OS and its processes.
- Implemented HTML and CSS within the script to produce a reader-friendly health report in the Html format which provides information such as top CPU consuming processes, top Memory consuming processes, the last System Boot, user login time, and many others.
- Extensively used Command Line Interface from the beginning to the end of the project
- Utilized: Bash Scripting, HTML, CSS, Linux CLI

### Music School Database

- Designed and developed a relational database based for a Private Music School
- Identified key problems and requirements needed for a database forming a case study for a Private Music School
- Identified suitable entities and attributes by producing EER diagrams, taking the conceptual design through enterprise rules
- Developed several tables using Oracle DBMS, populated with data, and applied indexes to the appropriate fields using SQL
- Operated basic and intermediate queries such as selection of tables, inner/outer joins, conditions
- Utilized: SQL (Oracle Apex), EER, UML, Normal Forms (1NF, 2NF, 3NF)

### E-Commerce Web Application

- Developed an e-commerce web applications for selling music courses using C#, MVC, ASP.NET Core, HTML, CSS, Bootstrap, JavaScript, and SQL

## EMPLOYMENT

---

**Assistant Sound Engineer**

**Imprint Church, Leicester**

**Sept 2017 – July 2020**

- Contributed to the establishment of a newly formed Church in 2017 with a team of 15, which attracted more than 100 people in a short period of time and expanded with a second location in London.
- Assisted in many projects with a newly formed (2017) musical artist 'Imprint Sound', which debuted on BBC Radio in 2018 and now streams on major platforms such as Spotify.
- Contributed to recordings of 8 different artists emerged from 'Imprint Sound' with an average of 100,000 album streams and some songs reaching up to 370, 000.

## ADDITIONAL EXPERIENCE

---

### IBM Code The Future Program

- Attended a six week IBM evening program that focused on basics of web development
- Developed a Personal Website using HTML, CSS & JavaScript

## SKILLS

**Software:** Java, Linux CLI, SQL, UML, C# | (familiar) C++, HTML, CSS, JavaScript, Git