



CHARLES LEWIS

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EXPERIENCE

GUY CARPENTER SUMMER INTERNSHIP , 07/2023 - 08/2023

Marsh McLennan, London, United Kingdom

- Provided IT Support for the Global Marine Team at Guy Carpenter, a reinsurance broker that is a subsidiary of the multinational financial services firm Marsh McLennan.
- Delivered a project to process data about the risks facing global clients, updating the previous approach which required manual input of data using Excel. The new approach enabled the direct transfer of data to pivot tables and automated the process using Python and Python's data frame and pandas' libraries.
- Facilitated the ability of the EMEA (Europe, Middle East and Africa) team to understand and programme Alteryx workflows relating to Flood Re, a flood re-insurance scheme in Britain, by documenting these workflows into a step by step easy to understand guide.
- Effectively collaborated with team members to gather information for the projects and to complete tasks set.
- Utilised communication skills to build relationships with colleagues and to gain a deeper understanding of the roles in the team.

SKILLS

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|--------------|--------------------------|
| • Java | • HTML |
| • Python | • Firebase |
| • SQL | • React |
| • C++ | • CSS |
| • JavaScript | • Microsoft Office Suite |

EDUCATION

City, University of London, London, United Kingdom, 01/2021 - Current

Bachelor of Science: Computer Science

3 stage undergraduate programme in Computer Science - the courses are as follows:
Stage 1:

- Databases - 76.2%, Programming in Java - 63%, Mathematics for Computing - 87.6%, Systems Architecture - 84%, Operating Systems - 80.6%, Computer Science, Ethics and Society - 90%, Introduction to Algorithms - 74.4%

Stage 2:

- Data Structures and Algorithms - 57.7%, Language Processors - 70.4%, Computer Networks - 52.2%, Object-Oriented Analysis and Design - 62.9%, Professional Development in IT - 71.9%, Programming in C++ - 89.1%

International Community School, London, United Kingdom, 01/2019 - 01/2021

PROJECTS

- Coursework - Creating a game using Java: I created a multi - level game in Java using a physics engine library provided by my university. I used the IntelliJ IDE and debugger along with GUI technology to change levels and class inheritance to create unique levels with common features. Creating this game successfully enhanced my knowledge of important application of Object Oriented Design.
- Coursework in Databases: I created a database for an e-commerce site marketing products relating to Korean pop music using SQL,. One of the requirements of this project was to normalise the data, so I learned how to use multiple tables, each storing different aspects of the data. Then, I provided foreign key relationships between related tables. Laying out the data in this way afforded me the opportunity to write non - trivial SQL queries to extract data in order to answer questions that were not anticipated at the time of data entry.
- Data Analysis Own Project: One of my interests is Korean pop music. I used my knowledge of Python and Java to create a data analysis project analysing the correlation between the percentage of Latin Script lyrics in Korean pop music videos and the viewing figures of the videos. The aim was to determine the extent to which viewing figures are influenced by incorporating Latin Script lyrics. Firstly, I read raw data from an SQLite database file. I used Java for the data analysis and Python's Matplotlib module to generate a scatter plot.
- Programming in C++ coursework: I developed two C++ classes that form part of a simple game, with robots moving around in a two dimensional space. The "robot" class contains methods to move a robot in the 2D space while the "game" class contains methods to obtain statistical information about the robots in the game, such as the number of robots and the furthest distance any robot has travelled.
- React/Firebase reddit style social media site: I created a social media site, in the style of Reddit, incorporating create, react, update and delete (CRUD) operations, in addition to features such as usernames and users, following functionality and upvoting/downvoting posts.
- Command line application - I developed an application using React which displays personal information and general information such as the time, in a terminal based on what command is typed.

ACCOMPLISHMENTS

- Music: Grade 8 Cello - Merit and Grade 8 Piano - Pass. Additionally, have played in orchestras at Centre for Young Musicians