

Józef Yika

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EDUCATION

De Montfort University - Master`s degree Computer Science

October 2022

- **Current Grade:** 1st Class (83% Overall)
- **Relevant Modules:** Object Oriented Programming(Java), Computer Systems and Networks(Linux Ubuntu), Database Systems and Design(SQL), Systems Analysis and Design(UML),

De Montfort University - Bachelor`s degree Music Technology

July 2019

- **Relevant Coursework:** Java, Electrical and Electronic Circuits, Digital Electronic, Microcontroller Systems, Embedded Systems(Arduino), Web development(HTML, CSS, JavaScript)

PROJECTS

FIRST SEMESTER

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

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, 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.

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)

Systems Analysis and Design Modelling

- Developed Analysis Class, Communication, and Sequence diagrams based on the Tour Management System scenario

- Identified and integrated key entities, attributes, multiplicity, and associations between the classes such as composition or aggregation
- Made use of available tools in EA (Enterprise Architect) to test, design, and develop all of the diagrams
- Utilized: UML, CASE EA

SECOND SEMESTER

ONGOING:

E-Commerce Web Application

- To design and develop an e-commerce web application using C#, MVC, ASP.NET Core, HTML, JavaScript, and SQL

SKILLS & ACHIEVEMENTS

Scholarship: \$20,000 for Computer Science BSc at IUBH University of Applied Sciences in Germany

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