**James Lynam**

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**Current GPA:** 3.52

**SUMMARY**

Developed numerous programs in college using Java and SQL. I am looking for an entry-level position in a company with a view to progressing within the organisation into a development role over time. (or … utilizing the opportunity to enhance my skills and experience.) ICT student with relevant employment experience and strong interpersonal skills seeks work placement position.

**IT SKILLS**

* Confident developer in Java and Python (also learning JavaScript and C++ at time of writing).
* Can write SQL queries to intermediate level using Oracle 11G.
* Can design and create database schemas.
* Capable of designing developing websites using Java Play Framework , JavaScript, CSS and HTML5.
* Can analyse data using tools like Excel and Python.
* Can analyse and design systems using UML.
* Competent user of Windows and Linux Operating Systems in system administration.
* Able to design, build, and troubleshoot a network using routers and hubs using related tools.
* Can configure a router using the Cisco IOS command set.
* Able to administer an Oracle 11G database server using Enterprise Manager and related SQL commands.
* Have used cloud environments like Azure and AWS during my course.

**EDUCATION & QUALIFICATIONS**

**2016 – to-date *BSc in Computing with Software Development***

Technological University Dublin Tallaght Campus

**2nd Year Modules studied**, Software Development 3 **(A)**; Software Quality Assurance and Testing **(A)**; Advanced Database Technologies **(B+)**; Network Fundamentals **(B+)**; Client-Side Web Development **(B)**; Discrete Mathematics 2 **(A)**; Software Development 4 **(B)**; Project (**B+**); Data Administration and Analysis (**B**); Routing & Switching Essentials(**B+**); Information Security (**B+**); Management Science (**A**);

**1st Year Modules studied**, Visual Design and User Experience **(A)**; Computer Architecture **(B+)**; Business & Information Systems **(A)**; OO Systems Analysis **(B+)**; Software Development 1 **(A)**; Critical Skills Development – Learning to Learn **(A);** Operating Systems Fundamentals **(B+)**; Discrete Mathematics 1 **(B)**; Software Development 2 **(B+)**; Social Media Communications **(B+)**; Database Fundamentals **(B-),** Statistics **(B)**

**Significant Projects Undertaken**

**E-Commerce Website (The Soundgarden)**

**Description**

A team project involving the development of an E-Commerce website (shopping cart, checkouts etc.…) focused on the sales of music and all related items. As a group of four we have designed the site itself using Java’s Play Framework, with much of the layout being derived from bootstrap, while using Play’s Ebean plugin to manage the database we have created. The site can store users, passwords and items, and includes session management where users cannot see certain privileges that are available to admins only.

Users could also place orders and filter through the product list based on certain parameters.

I was team leader is a group of 4 for this project and I received a ‘B+’ grade.

**Challenges faced:**

* Implementing the appropriate bootstrap template correctly without affecting other methods
* Getting the carousel image homepage working correctly
* Implementing subcategories within Play framework.

**Technologies & Tools Used:**

Java Play Framework, Linux and Windows compatibility, SQL (through Ebean), Java, JavaScript, CSS, HTML

**Database Management Program**

**Description**

A 2-person project involving the development of a java program which was intended to catalogue and manage many entries in a database. The subject matter we chose was that of musicians and all relevant information regarding them.

The program can perform SQL queries using Java’s JPA, which allows the user to use a menu system which was designed for ease of use. The completed program received an ‘A’ grade.

**Challenges faced:**

* Getting the SQL to work correctly
* Managing object relationships

**Technologies & Tools Used:**

SQL (through JPA), Java

**Relational Database for Martial Arts Classes**

**Description**

As part of my coursework in 2nd year, I worked in a team of 2 to develop a relational database that stored information on a Martial Arts class. It contained information such as dates, student names, belt types and instructor names.

The user was able to run any number of SQL queries to obtain said information. As part of our assignment, we had to use many high-level queries such as inner joins and we also had to normalize the database before construction. I received an ‘A’ grade for this assignment.

**Challenges faced:**

* Getting the SQL to work correctly

**Technologies & Tools Used:**

SQL (SQLplus), Oracle 11g, Excel (for normalization - 1NF, 2NF etc.)

**WORK EXPERIENCE**

**Sales Assistant (2011)**

Worked as a Sales Assistant in Penney’s on O’Connell Street, Dublin 1. This helped me develop my team-building skills.

**Work Placement (Setting up a Network) (2014)**

As part of a work experience program as part of a PLC course in Software Development I studied, I helped organize and set up part of the computer network in Crumlin College. This involved the updating of software, installation of new hardware and configuring the network itself for student access.

**INTERESTS & ACHIEVEMENTS**

Hobbies

* + Fairly adept at the acoustic guitar.

Professional

* Attended IT Tallaght’s innovation day in 2018, entered with the idea for a medical chip bracelet.
* Also attended AWS/Tallaght’s University Hospital event in which groups were presented with solutions. My group had to address an issue pharmacies and GPs had accessing patient records.  
  We resolved this using blockchain.

Posts of responsibility

* + Help assemble IT network in previous level of education.
  + Was team leader at innovation day.

**PRESENT AND FUTURE**

Presently, I am in my 3rd year (5th Semester) of my Software Development course at TUD Dublin Tallaght Campus, and in the next few months I will be learning how to use C++ and Python to analyze data structures and algorithms. I am also going to obtain knowledge on using JavaScript and how to initialize web and mobile applications using Amazon Web Services. (This is an extracurricular activity).

I believe myself to be a hard worker with the ability to multi-task and meet strict deadlines, and as a Software Developer, I have developed a knack for problem solving which has led to satisfactory project results.

**REFERENCES** Available on request