**Niall O’Reilly**

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**SUMMARY**

An enthusiastic individual with a desire to work in the I.T. sector, specifically machine learning and cloud computing. Demonstrated abilities at being able to support others in a workplace in previous roles. Has developed numerous programs in level 8 course using Java, Python, and Play framework, and C#. After completing an internship with AWS in 2020, I am now looking to finish up 4th year and work in an evolving industry to expand my knowledge.

**IT SKILLS**

* Ability to work to tightly structured deadlines with strict guidelines.
* Proven track record at being able to work as part of a team and on own initiative.
* Confident developer in Python.
* Capable of designing developing websites using Java Play Framework, JavaScript, CSS and HTML5.
* Have used cloud environments like Azure and AWS during study of course and used AWS services during Internship.
* Understanding and knowledge of the C# and Java programming languages.

**EDUCATION & QUALIFICATIONS**

**2017– to – date BSc in Computing with Software Development**

Technological University Dublin, Tallaght Campus.

**4th year Modules Studied (Semester 7):** Enterprise Applications Development 1 (**Results Pending, R P**); Enterprise Performance Architecture (**R P**); Interactive Media Design (**R P**); Information Management (**R P**); Advance Machine Learning (**R P**); 4th year Project (**R P**);

**3rd year Modules Studied (Semester 5):** Operating Systems (**B-**); Big Data Technologies (**C**); Data Analysis (**C**); Server-side Web Development (**C**); Cloud Service and Distribution (**C**); Experiential Learning – Internship (**PASS –** a pass or fail module);

**SIGNIFICANT PROJECTS UNDERTAKEN**

**Car Rental System**

**Description**

A team project involving the development of a Car Rental system, where multiple users could rent a car for a chosen timespan by choosing dates they would like to rent the car for. An Administrator could add, remove, update and delete a car from the database. Features of the system included account authorization, with only the Administrator being able to make the changes to the database. More features included the customer or user to be able to register an account and then log in to manage their bookings. Rental system included Stripe which was verified to be working through their provided card numbers.

**Challenges faced:**

* The payments part of the project was a challenge as we have never used Stripe before.
* The login was a challenge as we never made a login before the project.
* The actual choosing of dates was a large hurdle we hadn’t thought to be as big as it turned out to be. We were forced to make a compromise in having each car have a limit of 14 days rent and having large stocks of cars.

**Technologies & Tools Used in Project:**

Play framework, Java, JavaScript, Virtual Machine, Stripe, HTML, CSS, SQL, Linux shell scripting

**Covid19 Data Analysis (AWS Intern Profile Project)**

**Description**

A project I undertook under the guide of my mentor at AWS, I was to upload the csv files from the [John Hopkins Covid19 dataset](https://github.com/CSSEGISandData/COVID-19/tree/master/csse_covid_19_data/csse_covid_19_daily_reports) to an S3 bucket for analysis. The files were stored in a Hive folder system (e.g. year=2020, month=04, day=15). I used a Python script in Lambda to download the raw .csv files from Github, manipulated the data to exclude all but 5 columns (Confirmed, Deaths, Recovered, Province\_State, Country\_Region) and to also remove rows where null values occurred for 2 columns (Province\_State, Country\_Region). I then had a Glue Crawler go through the bucket and partition it for Athena, where I verified the integrity of the data I needed. As Glue was not a service I was to go far in-depth with during my internship, my mentor then helped me set up a Glue ETL job to store the data in an RDS MySQL database. I then used Quicksight to visualize the data.

**Challenges faced:**

* Had trouble create a reasonably challenging project as I have never done so before.
* Glue job proved difficult to get running as when I started my project Glue 2.0 had not been introduced, slowing my progress more than I realised.

**WORK EXPERIENCE**

Feb 3rd – Aug 28th, 2020

Intern – Cloud Support Associate (Big Data) for AWS

**Company Descriptions:** AWS Shannon Offices

**Main Responsibilities**

Project (Profile):

**INTERESTS AND ACHIEVMENTS**

Pastimes

* I am an avid reader and writer, having previously participated in National Novel Writing Month.
* Achieved a Junior Level Black Belt with White Stripe in Kenpo Karate. (Equivalent to Brown Belt Senior Level)

Professional

* Level 7 Certificate in Computer Science.
* Attended the Amazon AWS evening classes at the college in Semester 5.

Posts of responsibility

* Scratch volunteer in assisting primary students to learn how to program in Scratch.

**REFERENCES**

Keith Quille

Lecturer TU Dublin – Tallaght Campus.

Email : [keith.quille@it-tallaght.ie](mailto:keith.quille@it-tallaght.ie)

Was a teacher at St. Conleth’s Community College where I completed my QQI Level 6.

Juan Trillo

Big Data manager at AWS

Email: [amznjaun@amazon.com](mailto:amznjaun@amazon.com)

Was both Big Data manager and Intern manager while I completed my Internship at AWS.