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| University Degree MSCI mATHEMATICS | Academy Stream dATA |

## Summary

Reagan is a Mathematics graduate from the University of Bristol, currently using his skills gained from academia to enter the world of technology. Reagan thrives in challenging situations and thoroughly enjoys dealing with complex problems. As a consultant, he is dedicated to continuous self-development to produce the highest quality of work. He is passionate about sharing his knowledge with others, which has developed into the ability to explain difficult ideas to people of differing capabilities. He has demonstrated this teaching ability through working as a tutor for students of various age groups. Reagan’s honest and welcoming personality means he is easy to work with and provides support and cohesion for any team he joins.

## Skills

* Training and instructing
* Time management
* Teamwork and collaboration
* Attention to detail
* Python
* R
* Advanced Microsoft Excel
* SQL

## Academy Experience

#### Business Skills

A continuous development that explores the world of business and projects therein. A focus on understanding their role within organisations and communicating effectively with the people around them.

Skills: Effective communication, networking, negotiation, project life-cycles, development life-cycles, time and task management, stakeholder analysis/management, risk assessment, network diagrams, WBS and dependencies, presentation skills.

#### Advanced excel

Excel is an all in one data management tool that helps you find valuable insight in a quick and easy, all-in-one application. Reagan can clean, analyse and visualize real time data sources using advanced techniques in Excel.

Skills: SUMIF, VLOOKUP, conditional formatting, pivot tables, pivot charts, calculated fields, slicers, timelines, dashboards, forecasting.

#### Agile

Practiced continually throughout the academy, the mind-set, ceremonies, and continuous integration creates a highly knowledgeable Agile expert.

Skills: Scrum, user stories, personas, acceptance criteria, backlog and estimation, retrospectives, stand-ups, Kanban, agile tooling, continuous delivery, extreme programming.

#### SQL

SQL is the primary language responsible for managing data held in a relational database management system (RDBMS). Reagan can use DDL and DML statements to create and query relational databases, and export results to Excel for visualisation.

Skills: Database design and management, ERD, CREATE TABLE, SQL data types, INSERT INTO, SELECT, WHERE clauses, LIKE and wildcards, concatenation, formatting dates and numbers, column aliasing, simple and complex join statements.

#### tableau

Tableau is One of the most powerful Business Intelligence tools. Reagan can leverage the visual analytics tools in Tableau to enable users to interact with data.

Skills: LOD, calculated fields, hierarchy, filters, KPI, trend analysis, cohort analysis, data blending, cross database joins, dashboards, stories, publishing on Tableau servers.

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## Academy Projects

#### Name of Project: Microsoft excel project

#### description:

Reagan was tasked with analysing the effects of ethnic diversity on the EU Referendum vote. The first part of this project required him to demonstrate his ability to use the Find and Replace capabilities of Excel, as well as SUMIF and VLOOKUP functions to clean data from multiple sources and join the data into one table. The second part of the project required the use of pivot tables and calculated fields to analyse the data and create informative pivot charts. The final part of the project required Reagan to build an interactive dashboard using pivot charts, slicers, macros and buttons to display his analysis in a clear and intuitive fashion.

#### Name of Project: AGile project

#### description:

Reagan gained an understanding of the importance of the Agile Framework, as an iterative approach to software development, as well as a general approach in project management through a collaborative group project, spread across a duration of 2 days. The first day of the project was a theoretical introduction to the framework and helped Reagan to understand the benefits of Agile in comparison to the traditional Waterfall framework, through an exploration of the Agile Manifesto, principles and values. Focussing on the Scrum flavour of Agile, this consultant explored the various roles, ceremonies and artefacts used in the implementation of the Scrum methodology. The second day of the project required a transfer of the theoretical knowledge into a practical exercise to further enhance understanding. Working as a team in a Scrum simulation activity, the group were tasked to develop a product according to the requirements of a product owner. Following the initial task of translating these requirements into User Stories, as well as deciding on the Definition of Done, the activity throughout a series of iterations, utilised Scrum ceremonies such as Planning and artefacts such as the Project Backlog and Sprint Backlog to organise the product development process. Moreover, using Retrospectives and Sprint Reviews, the team reflected on the values of team collaboration, continuous learning, as well as a customer-oriented approach, as vital principles of the Agile framework. Overall, the team successfully created a product that met the product owner’s requirements and expectations.

#### Name of Project: SQL PROJECT

#### description:

#### Using the Sparta Global sample database, the first part of the project required Reagan to demonstrate his ability to utilise the SELECT statement with its related clauses, to query the database through a variety of exercises including aggregate functions and group by clauses. The second part of the project, required the use of Data Definition Language (DDL) and Data Manipulation Language (DML) statements to design and build a relational database for an Academy database with seven tables, using CREATE and DROP statements to define data structures, as well as the INSERT statement to populate the tables. The final part of the project required Reagan to export data from the Sparta Global sample database to Microsoft Excel to produce charts to analyse and visualize the data. Overall, using a combination of keywords and functions such as LIKE, wildcards, aliases, concatenation, formatting and joins this project was a practical way for Reagan to demonstrate, practice and be assessed on his knowledge of SQL.

#### Name of Project: tableau project

#### description:

Reagan was tasked with analysing the value of university degrees by considering employability and potential earnings. The first part of this project required him to clean real time data from multiple sources using Microsoft Excel. Reagan then performed trend analysis and cohort analysis on the data using the calculated fields, forecasting, hierarchy and data blending in Tableau. Finally, he created dashboards and stories using levels of detail expressions and published his story to Tableau Server.

## Employment History

#### From July 2015 To january 2019

#### Technical systems uk ltd

#### engineer

This role as an engineer developed his interpersonal skills, through interacting with other team members, communicating with clients at job sites and coordinating with managers. The job involved joining a mature team in the middle of a project to help meet their deadline of producing and delivering a clothes bagging machine to Sainsburys, therefore this role required the ability to rapidly learn new techniques and processes.

#### From septmeber 2013 To june 2014

#### Trinity catholic high school

#### Tutor

Reagan’s role as a tutor involved explaining new maths concepts to students of differing skill levels; assessing each student through interactive exercises and end of term assessments and providing feedback to each student and their parents. The role also required a level of responsibility and accountability as he needed to prepare all work material and maintain a detailed record of attendance.

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## Education

#### From september 2014 To july 2018

#### university of bristol

#### MSCI mathematics

#### First class honours

###### Modules:

###### 1st Year: Analysis, Calculus, Linear Algebra and Geometry, Foundations and Proofs, Probability, Computational Mathematics, Statistics, Mechanics, Introduction to Group Theory

###### 2nd Year: Multivariable Calculus, Statistics, Methods of Complex Functions, Ordinary Differential Equations, Mechanics, Applied Partial Differential Equations

###### 3rd Year: Fluid Dynamics, Bayesian Modelling, Quantum Mechanics, Information Theory, Financial Mathematics, Mathematical Methods, Calculus of Variations

4th Year: Monte Carlo Methods, Advanced Fluid Dynamics, Quantum Information Theory, Complex Networks, Asymptotic, Quantum Computation, Stochastic Optimisation

###### Final Project: “Randomized Load Balancing”- This project required Reagan to research multiple algorithms for distributing tasks, as they arrive at a server network. He used his knowledge of probability to prove theoretical bounds for each method, then he used R to simulate these algorithms, for large datasets, and show the accuracy of these bounds.

## Hobbies/extra Curricular activities

* Squash – In order to keep fit he plays squash once a week at his local club.
* Politics – He enjoys keeping up to date in both British and American politics by reading news articles or listening to podcasts such as BBC Business Daily, The Economist and Wired.

## Volunteer Work

###### After School Activity Leader

###### Trinity Catholic High School: Reagan ran mathematics taster classes for younger students who excelled at mathematics. This included presenting topics in mathematics; preparing exercises to test the students understanding and engaging the students with group activities.