Callum Guthrie | Curriculum Vitae

CLIENT SERVICES DATA ANALYST · COMPUTER SCIENCE GRADUATE

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Applicable Experience

TVSquared
CLIENT SERVICES DATA ANALSYT

Edinburgh, Scotland
May. 2015 - PRESENT

- Manipulating, cleansing and processing data using *Excel, MongoDB* and *PostgreSQL*.
- Responsible for loading, extracting and validation of client data.
- Analysing raw data, drawing conclusions and developing recommendations
- Data entry, data auditing, creating data reports and monitoring all data for accuracy.
- Troubleshoot with clients from around the world.
- Supplying qualitative and quantitative data to colleagues and clients.

Children 1ST (Charity)
CORPORATE DATABASE PROJECT VOLUNTEER

Edinburgh, Scotland
Feb. 2015 - Jun. 2015

- Extensive use of the fundraising database tool *Raiser's Edge (Blackbaud, Inc.)*
- Ensure that the corporate fundraising team has all database records up to date and amend any records where changes have occurred.
- Advising on the suitability of methodologies and suggesting improvements.
- Work on the database project so that historical records are correct and in-line with database protocols.

Marks and Spencer
CUSTOMER ASSISTANT

Livingston, Scotland
Oct. 2011 - Jul. 2015

- Responsible for maintaining a database which correlates information concerning the company's energy saving strategy.
- Retrieve information regarding the store's energy saving performance and update the database accordingly.

Academic Qualifications

Heriot-Watt University
B.S.c (HONS) IN COMPUTER SCIENCE - UPPER SECOND CLASS

Edinburgh, Scotland
Sep. 2012 - May. 2016

- First class dissertation thesis: A Comparison of NoSQL and Indexing Solutions for Big Data
  - Using a real world dataset from the biological environment, compare and contrast the functional and analytical capabilities of NoSQL solutions.

Braes High School
SCOTTISH HIGHERS

Falkirk, Scotland
Aug. 2004 - Jun. 2010

- 4 passes: English, Mathematics and Modern Studies at grade B and Physical Education at grade C

Technical Abilities

JAVA AND PYTHON

- Experience in using advanced trees, string processing, graphs and hash tables using a variety of libraries.
- Designed several programs in Java such as aeroplane route planners, compilers and data dictionaries.
- Implemented several search algorithms such as depth first search, breadth first search, uniform cost search and A* search using Python.

MYSQL AND POSTGRESQL

- Created and maintained several MySQL databases including designing a database structure as a relational data model for a tour guide company.
- Implemented and maintained the backend database using PostgreSQL for a wealth management application for financial advisers to control their clients stocks and shares.

HTML5, CSS3 and JavaScript

- Constructed a variety of data visualisations such as choropleth maps, tree maps and waterfall charts, using D3 and the Google API.
- Co-founder of a web development company Techni-Cals alongside one of my fellow computer science students. We have designed a variety of web pages including static, dynamic and e-commerce.

Significant Achievments

TVSquared

- Started as a summer intern in May 2015, and was then offered a permanent contract in September 2015 to work on a part time basis, coinciding with studies.

Marks and Spencer

- Voted employee of the month on four occasions for providing excellent customer service and going above and beyond the expectations of the job role.
- Elected member of the Big Involvement Group (BIG). BIG plays a major part in ensuring everyone counts, providing good conditions for work and consulting employees about matters which affect them.
- Appointed Plan A champion for the store. Plan A is a green strategy with emphasis on cutting waste,saving energy, trading fairly and promoting animal welfare.

University

- Awarded the Scott Logic Best Group Prize for producing the best overall year long university software engineering project.
- Part of a team which developed a wealth management application for financial advisers to control their clients stocks and shares.
- Worked as the group liaison and software engineer implementing the backend database in PostgreSQL and frontend using Ruby on Rails.

Silver Duke of Edinburgh Aware

- Effective communication was essential in order to succeed in achieving the award.
- Completed a challenging walking expedition where, at times, I had to fulfil both a leadership and team playing role.

Hobbies and Interests

Football

- Played football competitively from a young age and was captain of my team throughout my playing career.
- Undertook a coaching role for my team in 2009. I lead team training sessions and took control of several matches.