

Andrew Berry

Strong SQL foundation with experience in ETL development in SSIS and web development in .NET

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EXPERIENCE

Vanderbilt University, Nashville, TN — *Data Solutions Analyst*

September 2013 - Present

- Extensive use of complex SQL queries
 - Exploring newly incorporated data systems
 - Creating highly customized reports for user requests
 - Testing and requesting of IT-managed changes in ETL
 - Creating customized tables and views for internal projects
 - Writing queries to feed SSIS data flows from Oracle to SQL Server
 - Creating and modifying stored procedures in SSMS
- Miscellaneous programming tasks
 - Web scraping to convert addresses to drive time (python/selenium)
 - Text mining on survey responses to summarize common themes (R/tidyttext)
 - Create process that writes AD Group memberships to database table for easy consumption (C#/SQL in SSIS package using DirectoryServices)
 - Maintain legacy data driven web applications (VB.NET web forms backend and HTML/CSS/JavaScript frontend)
 - Content migration CSV validation tool (R script or python Jupyter notebook)
 - Text munging utility for untangling abstruse table aliasing in OBIEE-generated SQL queries (JavaScript)
- Create and maintain hundreds of business intelligence reports for internal consumers and external survey submissions
- Troubleshooting of IT-maintained ETL flows in IBM DataStage
- Using JIRA ticketing system to track our team's work, as well as request new ETL or metadata modelling work from IT
- Documentation of queries and processes in Confluence
- Maintain git repositories in BitBucket

Savant Learning Systems, Martin, TN — *Web Developer*

January 2013 - September 2013

- Full-stack development of .NET web application
 - Backend: primarily C#, some legacy VB
 - Database: MS SQL Server with equivalent data model
 - Frontend: HTML, CSS, JavaScript/JQuery

QUALITIES

Careful, thoughtful communicator

Lifelong learner

Comfortable in team-based and individual work environments

TOOLS/LANGUAGES

Experienced: SQL (Oracle, T-SQL, sqlite, PostgreSQL), Python, JavaScript, R, C#, Java, bash, CSS, HTML, C++, Tableau, git, JIRA, Confluence

Exposure to: React, Redux, node.js, d3.js, Tensorflow, Keras, mocha, flask, django, Kafka, AWS, TDD, Bootstrap, Sass, Docker

EDUCATION

Vanderbilt University, Nashville, TN — *Master of Science*

August 2014 - May 2019

Computer Science, focusing on Artificial Intelligence and Machine Learning

UT Martin, Martin, TN — *Bachelor of Science*

August 2010 - May 2013

Computer Science, focusing on Software and Systems concentration

PROJECTS

VU Chancellor Search — *Text analysis for work*

Used text mining/information retrieval techniques to turn raw text survey responses into actionable data points for the search for Vanderbilt University's next chancellor.

Drive Time Analysis — *Web scraping for work analysis*

Used web scraping python technologies (BeautifulSoup and Selenium Webdriver) to retrieve driving distances of graduate students based on their home addresses (needed for external consultant's analysis).

Yoga Tracker Site — *Personal project*

Created a Django website hosted locally to catalog all yoga videos from a particular youtube channel.

- Upon opening the site, a urllib request pulls all of the channel's newest videos from youtube and offers to add them into the SQLite database
- All videos that are chosen for addition to the database are logged with their title, runtime in minutes, and URL
- The main page of the site pops up an iframe containing an embedding of the video for me to watch and follow along with
- After finishing the video, clicking the "Log" button adds a row into the tracking table with today's date and the video's ID, so that I can see how much yoga (measured in minutes) I have done over time