**Thomas S. Hollinberger**

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Dear Dr. Martin,

I am a prospective graduate of William Jewell College’s Data Science program (May 2021) and am seeking employment in the data analysis arena. I have 30+ years of full-spectrum work experience in facilities management, operations management, project and program management, contract management. My William Jewell degree in Data Science represents an added area of expertise, which came along with a relocation to the Kansas City area for family reasons three years ago.

My current and past credentials include: PMI-Certified Project Management Professional, ASQ-Certified Six Sigma Black Belt & Certified Manager of Quality, Master’s degree in Financial Management, Bachelor’s degree in Architecture (formerly a Registered Architect), formerly Defense Acquisition Workforce Certified in Contracting for Construction and Facilities Engineering, College instructor, former Naval Officer and Navy Seabee.

My William Jewell degree adds a useful layer of data-mindedness which will enhance most management endeavors. At William Jewell, I have completed coursework in: Data Analysis using Excel, Applied Statistics, Econometrics, Microsoft Dynamics ERP, Data Modeling, Databases and Querying, Python, SQL, R, Javascript, HTML/CSS. Micro and Macro Economics, Managerial Economics, International Economics, and Economic Geography. I carry a 4.0 GPA.

Specifically, I have excelled in using R packages for data analysis and visualization. I am familiar with Github and Slack to manage versioning, workflow, and communications among teammates. I use ggplot2 to visually portray two-dimensional data, and can add facets, color/shape/size to display additional dimensions. Data transformation skills include using tidyverse and dplyr to import, parse, group/summarize, filtering and selecting, and mutating data into summary statistics; then portraying this data in bar charts, histograms, line charts, and a variety of specialty graphs that can be created in ggplot2. I have developed considerable skills in dissecting large databases, pulling out meaningful data, and making actionable interpretations based on that data. I also present those findings using knittr, spin, and rmd files for ease of distribution. I enjoy mapping relational databases and wrangling and cleaning data from various sources to construct a tidy dataframe as a prelude to efficient and effective data analysis. I have used R packages to analyze data from several large databases, for a wide variety of purposes:

* Gapminder (GDP vs Life Expectancy),
* NYCFlights13 (Arrival and Departure Efficiency),
* 2016GunDeaths (Causes and Areas to Take Action),
* CensusAtSchool (Environmental Conservation attitudes among students in various countries),
* OurWorldinData (Child Mortality, location and trends),
* Diamond (the competing attractions of caret, cut, clarity, & price),
* Relational databases in the Lahman MLB data library (inflation adjusted earnings of players from Missouri Colleges and Universities),
* Point-of-Sale data from 6 Companies (time-zone-corrected POS data, a time-series / business-analysis and recommendation for potential investment. Using lubridate).
* Stock Market Data (Individual Stock and Portfolio tracking and analysis. Interactive hourly, daily, monthly tracking charts. Cumulative value tracking. Using tidyquants and dygraphs.)
* HUD Housing Permit Data (Mapping the trend effects of the 2008 housing bubble, data ranged from 1980 to 2010, at state and county level. Using USAboundaries, sf, and geofacet.)
* USGS Earthquake Data (interactive and animated maps of earthquakes on a world map, animated for time of occurrence. Using leaflet and gganimate)
* William Jewell College Student Admissions Data (Personally found, inputted, and wrangled 25 data elements on each of 254 students. Used Linear and Probit regression to analyze the drivers of student success.)

Next semester, I will have course work in data mining and forecasting. And I hope to continue building my business-related data analysis skills, learning Tableau and Microsoft BI, based on recent solid reviews by Gartner : <https://www.analyticsvidhya.com/blog/2020/02/gartners-2020-magic-quadrant-bi-analytics-tools/>

<https://www.gartner.com/reviews/market/analytics-business-intelligence-platforms/vendors>

In my Data Visualization course, I have successfully completed all Tasks, Case Studies, Team-Leads, Code Challenges, and the Final Project (presented to students, faculty, and College staff). I have actively participated in class and produced an indexed 200-page compendium of examples, notes, and references for future use. My work is cataloged on <https://github.com/WJC-Data-Science/DTS350-hollinbergert> for your review. I respectfully request an A in this course.

I would greatly appreciate an opportunity to discuss in more detail my achievements in this course. Please contact me at [hollinbegert.18@william.jewell.edu](mailto:hollinbegert.18@william.jewell.edu) at your earliest convenience to arrange a personal meeting.

Sincerely yours,

Thomas Hollinberger