Introduction to the capstone

Sample cases for data analysts

- Video: Best-in-class 7 min
- Reading: Your portfolio and case study checklist
 10 min
- Reading: Revisiting career paths in data

 10 min
- Practice Quiz: Test your knowledge on professional case studies 5 questions
- Reading: Next steps

Revisiting career paths in data

In a reading in the Foundations: Data, Data, Everywhere Course, you learned about three different career paths in data science: data analyst, data scientist, and data specialist. This reading revisits the data analyst career choice (first column in the table below) to explore how the skills you have learned in this program match up with real job requirements.

	Data Analysts	Data Scientists	Data Specialists
Problem solving	Use existing tools and methods to solve problems with existing types of data	Invent new tools and models, ask open-ended questions, and collect new types of data	Use in-depth knowledge of databases as a tool to solve problems and manage data
Analysis	Analyze collected data to help stakeholders make better decisions	Analyze and interpret complex data to make business predictions	Organize large volumes of data for use in data analytics or business operations
Other relevant skills	 Database queries Data visualization Dashboards Reports Spreadsheets 	 Advanced statistics Machine learning Deep learning Data optimization Programming 	 Data manipulation Information security Data models Scalability of data Disaster recovery

Mapping certificate skills to job requirements



The skills you gain with the Google Data Analytics Certificate align with skills that data analyst jobs require. When you create your resume, the way you present your skills can capture the attention of a recruiter or a hiring manager. Many career counselors recommend that you customize your resume each time you apply for a job so that your experience and skills align as closely as possible with the requirements listed in the job description.

For each of the relevant skills in the previous table, consider the following:

- Possible phrases from job descriptions
- Examples of matching skills from this certificate

Let's go through the skills for data analysts and examine common phrases you might find in job descriptions.

Skill: database queries

Job description phrase	Skills from this program you could include in your resume
Collect data by using a scripting language such as <u>SQL</u> ☑	- Perform SQL queries- Sort and filter data using SQL queries- Convert data types using SQL functions

Skill: data visualization

Job description phrase	Skills from this program you could include in your resume
Visualize data insights and communicate your	- Create data visualizations using Tableau
findings to	- Create visuals in spreadsheets
teams in other organizations	- Create presentations from data analysis results

Skill: dashboards

Job description phrase	Skills from this program you could include in your resume	
Build and train users of new dashboards	Identify the data needs of usersCreate dashboards using TableauUse design thinking to improve dashboards	

Skill: reports

ob description phrase	Skills from this program you could include in your resume
	- Create data cleaning reports
Create comprehensive reports	- Create and maintain change logs
	- Create reports in R Markdown

Skill: spreadsheets

Job description phrase	Skills from this program you could include in your resume
	- Clean data in spreadsheets
Explore and analyze datasets with spreadsheets	- Sort and filter data in spreadsheets
	- Create pivot tables in spreadsheets

Skill: programming

This is an area where you can potentially distinguish yourself from other candidates when you apply for a data analyst position. Programming is considered a more advanced or higher-level skill and might not even be in a job description for a junior data analyst role. You learned to use R for data analysis as part of this program, and adding programming skills to your resume might make your application stand out.

	Job description phrase	Skills from this program you could include in your resume	
Knowledge of some programming languages and an organized and methodical approach to work		 Install and use the tidyverse package in R Run scripts in RStudio Create data visualizations in RStudio 	

Aiming for more technical roles

If your goal is to work in a more technical role like a data scientist, the Google Data Analytics Certificate is a good starting point. But you might need to pursue additional learning opportunities to advance your skills, such as:

- Completing other professional certificates (Coursera offers many)
- Registering for college courses as a part-time or full-time student and applying for paid internships
- Continuing your education in a four-year college degree program like computer science, data science, or management information systems

For more information about career paths in data science, including roles that are more technical, refer to this article on Medium: <u>Career Paths Within Data Science</u> .

Mark as completed