



5 Courses

**Introduction to Data Engineering**

**Python for Data Science, AI & Development**

**Python Project for Data Engineering**

**Introduction to Relational Databases (RDBMS)**

**Databases and SQL for Data Science with Python**



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**Daniel Marques da Silva Chaves**

has successfully completed the online, non-credit Specialization

# Data Engineering Foundations

The earner of this certificate has demonstrated mastery of fundamental skills required for Data Engineering, including a working knowledge of the data ecosystem and lifecycle, Python programming language, working with different types of data files, using libraries such as Pandas and Numpy, invoking APIs, webscraping, performing basic ETL, and working with SQL and relational databases. The individual has hands-on practice and completed several projects working with data in multiple formats, transforming and loading and using multiple databases and tools from within the Data Engineering discipline, and using SQL to query real world datasets. The learner is now armed with the skills and knowledge to start tackling foundational level Data Engineering problems and challenges.

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Rav Ahuja, Program  
Director, IBM Skills  
Network

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