Learning Path Udacity:
Data Engineer (1/2)

The **Data Engineer** manages data integration, quality and transformation to ensure data teams have the cleanest possible data. Highly technical skillset.

Nanodegree

Prerequisits

Goals

Intro to Programming

No prior experience with programming is required. You will need to be comfortable with basic computer skills, such as managing files, running programs and using a web browser to navigate the Internet.

The participants
- will learn the foundational skills all programmers use, whether they program mobile apps, create web pages, or analyze data

Full Stack Web Developer

To enroll, you should have experience with Python Programming (or another object-oriented programming language), Programming with JavaScript, Git/GitHub, HTML basics and Data Structures including Lists, Arrays, Dictionaries.
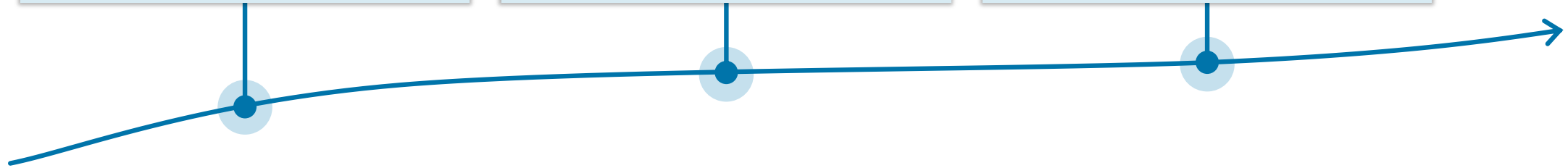
The participants
- will learn about building out the infrastructure that powers and supports the many web, desktop, mobile and integrated applications in the world
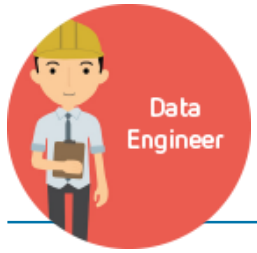
Data Engineer

To optimize your success in the Data Engineering Nanodegree program, you should have intermediate Python programming and SQL skills.

The participants
- will learn to create user-friendly relational and NoSQL data models, create scalable and efficient data warehouses and identify the appropriate use cases for different big data technologies
- will learn how to work efficiently with massive datasets, build and interact with a cloud-based data lake, automate and monitor data pipelines and develop proficiency in Spark, Airflow, and AWS tools

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	Programming for Data Science with Python Programming for Data Science with R	**Data Analyst**	**Data Engineer**
Nanodegree			
Prerequisits	There are no prerequisites for this program, aside from basic computer skills.	We recommend having experience working with data in Python (Numpy and Pandas) and SQL.	To optimize your success in the Data Engineering Nanodegree program, you should have intermediate Python programming and SQL skills.
Goals	The participants • will learn the programming fundamentals • will be able to use Phyton / R, SQL, the terminal and git	The participants • will learn to organize data, draw meaningful conclusions and clearly communicate critical findings • will develop proficiency in Python and its data analysis libraries and SQL • will learn to manipulate and prepare data for analysis and create visualizations for data exploration • will learn to use your data skills to tell a story with data	The participants • will learn to create user-friendly relational and NoSQL data models, create scalable and efficient data warehouses and identify the appropriate use cases for different big data technologies • will learn how to work efficiently with massive datasets, build and interact with a cloud-based data lake, automate and monitor data pipelines and develop proficiency in Spark, Airflow, and AWS tools