

# Carlos Colmena

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## Education

**University of Illinois**, Champaign, Illinois  
*Master of Science, Data Science (Online)*

January 2023-Expected January 2025

Relevant Coursework: Applied Machine Learning

**New Jersey City University**, Jersey City, New Jersey  
*Bachelor of Science, Computer Science* GPA 3.9

December 2022

Relevant Coursework: Data Science, Data Literacy, Database Design, Algorithms, Business Information Systems, Statistics, Object-Oriented Programming in Python, Operating Systems, Business Applications.

## Skills

Python, MySQL, Excel, Tableau, Power BI, Access, R, Jupyter, PowerPoint, Looker, Oracle, Word, SAS.

## Certifications

**IBM Data Engineering Professional Certificate**

Fall 2022

- Completed the IBM Data Engineering certificate program which consists of SQL Server, MongoDB, shell scripting, ETL/ELT process, Hadoop, Hive, Airflow, Apache Spark and related data engineering infrastructure technologies.

**Google Data Analytics Specialization**

Summer 2022

- Completed the Google Data Analytics certificate program which consists of a rigorous course involving SQL, Excel/Sheets, R, SAS, Google Looker Studio, Tableau. Completed the capstone case study.

## Projects

*Covid-19 Tri-state Analysis*

Fall 2022

- Collected data from the CDC. Applied filters, transformations, and functions to clean the data in Excel.
- Used the cleaned dataset make a descriptive statistics table on new cases and death cases, including number of records, mean, standard deviation, three quartiles (Q1, Q2, Q3), minimum/maximum values and created pivot tables to show the average new cases by year and month. Created visualizations in Tableau showing chart displaying the trend of daily confirmed cases in three-state area over time.

*Product Superstore Analysis*

Fall 2022

- Acquiring data from sources and loading it into Excel, transforming the data, analyzing results, creating a dashboard. Worked with business intelligence tools and data validation, conditional formatting, and queries to export results. Analyzed my analysis of quarters and presented the results alongside my team.

*University Database*

Fall 2022

- In MySQL, created a university database for a school project involving maintaining student records.
- Involved in logical database design (tables, primary keys, foreign keys) and physical database design.
- Worked on the data access layer by implementing SQL queries (joins, unions, aggregation, functions.)

*Bookstore Management System*

Fall 2022

- In Access created an application for use of store records. Loaded the data to establish relationships between tables, queried data, made a data input form and reports. Maintained thorough documentation.

*Credit Card Fraud Data Mining Analysis*

Fall 2022

- In Python, used financial data with Pandas, NumPy, Sklearn libraries to create data frames to work on the classification problem. This included data pre-processing, data modeling, model evaluation. Worked with the shape of the dataset, missing data & correlation. The model classified with 99% accuracy.

## Work Experience

**Remi**

October 2019-January 2020

*Busser*

- Part of teams that regularly managed events of 100+ people effectively through communication with management on collaboration, organization, effort, and attention to detail.
- Able to work independently and solve various on-demand tasks. Conscientious and adaptable.