

# YOUQING YE

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Multidisciplinary, driven Data Analyst with a passion for condensing large data in to a simple to understand story. Adept at working independently as well as collaborating with teams across multiple functions to take information from a wide variety of sources and effectively break down concepts in layman terms to diverse audiences. Experienced in Excel, Python, SQL & HTML. An insatiable learner who loves acquiring new skills and tackling new challenges. Strong emphasis on working collaboratively with a like-minded team to ensure optimal results.

## **Technical Skills:**

Languages: Python, SQL, noSQL, Javascript

Data Manipulation & Visualization: pandas, matplotlib, numpy, seaborn, Tableau, D3.js, plotly

Database: MySQL, MongoDB

Other: Git, AWS, Flask, command line

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## **PROJECTS**

### **PROJECT: COMPARISON BETWEEN GOOGLE PLAY STORE AND APPLE STORE**

**2018**

To get quantitatively comparison between Google Play Store and Apple Store, over 10000 apps in each store are compared by their category, rate and price using Excel and Python, visualized by graphs and tables created with pandas, matplotlib, numpy, etc.

- Role in the project: Category part of the whole project including data cleanup with python, visualization and comparison with matplotlib.
- <https://github.com/szareen/Project-1>
- Language used: Python, Excel
- Data Manipulation & Visualization: pandas, matplotlib, numpy

### **PROJECT: ETL ON HOUSING PRICE, POPULATION, CRIME AND SAT SCORE DATA**

**2018**

To analyse housing trends in America, Housing price, population ,crime and SAT score data are extracted from Data.world and College Board. The database was created using MySQL database and the data transformation was conducted in Jupyter notebook with Python pandas. SQLAlchemy was used to create connection between the python dataframe and MySQL database.

- Role in the project: using Python pandas to extract and transform all csv files into the form for final loading; dig into the process of data scraping from online PDF file from College Board for SAT scores.
  - [https://github.com/sasidhy1/etl\\_repo](https://github.com/sasidhy1/etl_repo)
  - Language used: Python, MySQL database
  - Data Manipulation & Visualization: pandas, matplotlib, numpy, SQLAlchemy, BeautifulSoup, PyPDF2
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## **EDUCATION**

**Degree or Certification Title:** Rutgers Data Science Bootcamp  
**RUTGERS UNIVERSITY – Piscataway, NJ**

A 24-week intensive program focused on gaining technical programming skills in Excel, VBA, Python, R, JavaScript, SQL Databases, Tableau, Big Data, and Machine Learning.

**Degree or Certification Title:** Master of Science in Chemistry  
**VIRGINIA TECH – Blacksburg, VA**

Master of Science degree in Chemistry from Virginia Tech focusing on developing new-age nanomaterials with techniques including HPLC, NMR, AAS, GC-MS, etc. Lifelong habit of critical thinking and self-learning is formed during three years of systematically trainings.