Alex De Mouy

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# SUMMARY

Detail-oriented and highly analytical professional with experience in performing data analysis functions within a fast-paced startup environment. Proven ability in leveraging Excel, Python and SQL to process large samples of raw data and produce reports that meet business requirements. Comfortable with Agile/Scrum methodology.

# EDUCATION

**University of Maryland College Park, MD**

B.A. Economics Sep 2015 – May 2017**SKILLS**

Programming Languages: Python (Pandas, NumPy, Matplotlib, Seaborn, Sklearn), SQL

Tools and Technology: Tableau, MySQL Workbench, PostgreSQL, Excel, Jupyter Notebook, Jira, Confluence, Git

Spanish Language: Professional working proficiency

# EXPERIENCE

**RightEye, LLC Bethesda, MD**

QA Tester | Data Associate March 2019 – July 2019

* Designed test plans with detailed test cases to execute functional, positive, negative, and regression testing on RightEye software and hardware.
* Developed SQL queries to extract raw data to fulfill client requests and produce internal reports.
* Reduced time spent on data cleaning by 80% with custom Python scripts that identified outliers, removed columns, rounded values, renamed headers and checked for missing data.
* Performed normative analysis on eye-tracking data to support scientific research and help guide business decisions on product development.
* Participated in meetings to express methods of improving data processes and outline data requirements.

**RightEye, LLC Bethesda, MD**

Fulfillment Coordinator Nov 2017 – Feb 2019

* Fulfilled 25 eye tracking systems a month by assembling hardware components, installing peripheral devices, drivers and company software, and shipping units out to customers.
* Provided Tier-1 and Tier-2 level tech support to customers on RightEye software and Windows troubleshooting.
* Trained off-site teams on the fulfillment and tech support process through 1-on-1 training and in-depth documentation in an effort to outsource these operations to meet increased sales demands.

# PROJECTS

**NYC SAT Scores**

* Analyzed NYC high school data to explore relationships between SAT scores and different demographics. Used Python to clean and combine several data sets with Pandas and visualized the data with Matplotlib and Seaborn.

**Predicting Car Prices**

* Predicted the market price of cars using the k-nearest neighbors (KNN) algorithm. Used Python along with the following libraries: Pandas, NumPy, Sklearn

**Housing Market Dashboard**

* Created a dashboard in [Tableau](https://public.tableau.com/profile/alex.de.mouy#!/vizhome/EndofLevel2_15814120331420/Story) to visualize data from the housing market in England covering a 20-year period. Analyzed the effects of the housing market crash on sales volume and average price.

# CERTIFICATIONS

**Dataquest - Data Scientist in Python** Oct 2019 – Present

* Topics covered: Data Visualization | Data Cleaning & Analysis | APIs & Web Scraping | Statistics & Probability

**Dataquest - Data Engineer** Jan 2019 – Present

* Topics covered: Processing Big Data | Optimizing Database Performance | Building Data Pipelines

**Tableau Desktop Specialist** Oct 2019

**University of Michigan – Python for Everybody Specialization**  Jan 2019 - Sep 2019

* Series of courses that teach about data structures, networked application program interfaces, and databases.