

Charles P. Biggar

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Multidisciplinary Data Analyst with a background in healthcare operations with skills in Excel, Python, and SQL. An insatiable learner who enjoys leveraging healthcare background and analytics skills to drive data driven solutions. My analytical problem-solving abilities combined with strengths in collaborating across diverse groups, makes me a valuable addition to any team.

Education

Columbia University School of Engineering | New York, NY

Jun 2019 – Jan 2020

Columbia Data Analytics Boot Camp

An intensive 24-week Boot Camp. Relevant Skills: Excel, VBA, Python, Statistical Modeling, Pandas, Matplotlib, NumPy, SQL, ETL, JavaScript, D3.js, Leaflet.js, Tableau, Machine Learning, Git.

Villanova University School of Arts & Sciences | Villanova, PA

Aug 2011 – May 2015

Bachelor of Science in *Biology* | Bachelor of Arts in *History*

Work Experience

FoodBAM | Waltham, MA

Sep 2019 – Present

Data Analyst

- Perform ETL processes to manage and transform data into uniform format to allow the clients to price compare across their multiple distributors
- Utilize Python, SaaS, and SQL to extract, manipulate and integrate the data into a data warehouse
- Working with big data to ensure optimal quality through maintaining of data transformation and extraction scripts
- Participate with DevOps Team to develop and push new features for our platform

CityMD | New York, NY

Shift Supervisor

May 2018 – Jun 2019

- Management of all site operations through delegation of patient flow, tracking of medical supply inventory, organizing staff scheduling and ensuring HIPAA compliance
- Analyzed site finances, supply inventory and site metrics for quality assurance with Python and Excel
- Enhanced site metrics through development and implementation of new medical staff workflow to help propel the clinic to becoming the most productive Manhattan location

Senior Medical Scribe

May 2016 – May 2018

- Trained newly hired scribes on clinic practices in accordance with HIPPA and DOH regulations
- Analyzed performance metrics using Python to compile success reports for management
- Deliver critical care and procedural support to physicians by utilization of EMR software, documenting patients' vital signs, reviewing medical histories, and conducting signs and symptoms analysis

Villanova University | Villanova, PA; *Teaching Assistant*

Aug 2014 – May 2015

Columbia University Medical Center | New York, NY; *Neurology Research Assistant*

Jun 2014 – Aug 2014

Project Experience

Weather API | <https://github.com/CharlesPBiggar/WeatherPy>

- Created a Python script to visualize the weather of 500+ cities across the world of varying distance from the equator.
- Used Python to extract weather information about these cities using OpenWeatherMap API.
- Built a series of visualizations to showcase the relationships between Latitude and weather conditions.

Startup Investment Analysis | github.com/CharlesPBiggar/Data-Analytics-Project-1

- Conducted an analysis of US startup companies in a 4-person team and presented findings to colleges
- Utilized investment data to visualize trends in the data using Pandas and Plotly within Jupyter Notebook
- Determined company distribution, most funded sectors and investor prevalence using our visualization

Pymaceuticals | github.com/CharlesPBiggar/Pymaceuticals

- Analyzed 45 days of clinical trial data using Pandas and Matplotlib within Jupyter Notebook
 - Examined tumor volume changes, metastasis occurrence, survival rate across different treatment regimens
 - Calculated data was graphed using Matplotlib and exported as PNG files.
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Technical Skills

Languages: Python, SQL, VBA, HTML, JavaScript

Data Manipulation & Visualization: Pandas, NumPy, Matplotlib

Software: Git, Command Line, Excel, Word, PowerPoint, Access

Hardware: Computer Assembly, Hardware Maintenance
