

Charles P. Biggar

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Multidisciplinary Data Analyst with a background in healthcare operations with skills in Excel, VBA, Python, HTML, SQL, and JavaScript. 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.

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

Education

Columbia University School of Engineering | New York, NY

Current

Columbia Data Analytics Boot Camp

An intensive 24-week Boot Camp. Relevant Skills: Excel, VBA scripting, Pivot Tables, Python, Statistical Forecasting/Modeling, Pandas, Matplotlib, NumPy, SQL, ETL, MongoDB, HTML, CSS, Bootstrap, Dashboarding, JavaScript, D3.js, Leaflet.js, Tableau, Hadoop, Machine Learning, Git, command line.

Villanova University School of Arts & Sciences | Villanova, PA

August 2011 – May 2015

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

Projects

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.

Stock Analysis | github.com/CharlesPBiggar/VBA-Stock-Analysis.git

- Analyzed daily stock market data for 2835 stocks over 3-year period using VBA scripting
 - Determined yearly change, percent change and total trading volume for each stock within Excel
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Experience

CityMD | New York, NY

May 2016 – June 2019

Shift Supervisor

- Management of all site operations through delegation of patient flow, tracking of medical supply inventory, organizing staff scheduling and ensuring HIPAA compliance
- Analyze 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

- 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

Medical Scribe

- 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
- Utilize eClinicalWorks EMR software to triage patients, document patient visits, transmit medications, order laboratory testing, and request diagnostic imaging

Villanova University | Villanova, PA

August 2014 – May 2015

Teaching Assistant

- Facilitated the learning of topics in General Chemistry 1 & 2 through laboratory and lecture instruction
- Graded, reviews and provided regular feedback on weekly in-class and post laboratory work

Columbia University Medical Center | New York, NY

June – August 2014

Neurology Research Assistant

- Assisted in neuroscience research under Dr. Jay Gingrich into serotonin 5-HTP receptor development in humans and created Excel models to analyze and visualize experimental data in excel models

New York Medical College | Valhalla, NY

May – August 2012

Oncology Research Assistant

- Assisted Dr. Mitchel Cairo with biochemical oncology research into the DLEU1 tumor suppressor gene through compiling it's genetic sequences and analyzing its expression in Burkitt' lymphoma
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