



PATRICK CUNNINGHAM

DATA ANALYTICS EXPERIENCE

DATA ANALYTICS NASHVILLE SOFTWARE SCHOOL JAN 2021 - PRESENT

In January I enrolled in a part-time data analytics bootcamp with NSS where we covered Excel, SQL, Power BI, Tableau, and Python systems in the manipulation, exploration, and presentation of real-world data and scenarios. We have had both group and individual projects to help us adapt to working in the field and presented to real stakeholders based off of sample data sets.

- Analyzed data using Microsoft Excel, with focus on formulas and pivot tables
- Built interactive dashboards with Tableau and PowerBI
- Cleaned and presented data through Python's pandas library
- Created data visualizations utilizing matplotlib and seaborn
- Explored data storytelling with visualizations

NOTABLE PROJECTS

- Tableau-workshop: Screwtape Letters parody based off of downloaded app data for iPhone. Pulled data and renamed data for pivot tables with an interactive slicer, had adaptable graphs and hidden sections for selective focus. (https://public.tableau.com/app/profile/patrick.cunningham3688/viz/TableauScrewtabpLetter/Real_Dash?public=yes)
- GDP-and-internet-usage (Python 3): Looks into GDP data by country and compares internet usage using Python 3.4 and Jupyter Notebooks. After cleaning and merging the data I was able to make charts comparing and contrasting the countries with highest GDP and highest internet usage to those with the lowest. (https://github.com/NSS-Data-Analytics-Cohort-6/gdp-and-internet-usage-Cuiweiyi/blob/main/notebooks/Setup%20for%20the%20gdp_percap.ipynb)
- Cost_of_living_and_crime (Python 3 and Tableau): Looks at the cost of living compared to crime statistics throughout the US between 2015 and 2019. Includes, web scraping, cleaning data, seaborn visualization for average costs and Tableau presentation. (https://github.com/Cuiweiyi/cost_of_living_and_crime)

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SITES

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<https://github.com/Cuiweiyi>

ABOUT ME

I am proficient in Mandarin Chinese. Worked in training and technical troubleshooting previously. During the 2020 pandemic I decided to challenge myself by attempting the most difficult skill I could think of, which was coding. I found I enjoyed the skillset through free code camp, which led me to enroll in Nashville Software School. I enjoy the challenge and problem solving presented by data analytics. I love storytelling, whether it is traditional folktales or DnD, all stories are built off of observation and statistics. The combination of analytics with storytelling has been challenging, but I have really enjoyed the new field and exploring the possibilities. I would be honored if you would allow me to tell your data's story.



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PROFFESIONAL EXPERIENCE

Community Service Officer III Vanderbilt University 03/2016 – present

- De-escalation-which is the intake of data and association with current trends then immediate action to resolve based on available data.
- Management and tracking of radios
- current instructor of Mace, Ethics, Customer Service, and Field Training.
- Presentation of classes

Armed security APEX Security 09/2014-03/2016

- Conflict resolution through presentation of logical choices and presentation of alternatives.
- Observation of area-the collection of data to maintain a status quo

English Teacher Wuhan Institute of Technology 02/2013-06/2014

- Developed, organized, and implemented syllabus to achieve strategic teaching goals
- Evaluated and taught oral English skills as well as written journals
- Led lectures, discussions, and activities with set goals and deadlines.

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EDUCATION AND CERTIFICATES

- Data Analytics or Science Bootcamp Certification | Nashville Software School | projected graduation: 06/28/22
- Bachelor of Science in Interdisciplinary Studies | Austin Peay University | 12/2012
- HSK (Hanyu Shuiping Kaoshi) level 3 Chinese proficiency test

SKILLS

- Python (pandas)
- Power BI
- Git/GitHub
- Leadership and Management
- Conflict resolution
- Tableau
- SQL (PostgreSQL)
- Mandarin, Chinese