**Francis J. Kang**

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**EDUCATION/CERTIFICATION**

**University of Maryland**, College Park **2017**

*Degree: General Biology*

**George Washington University**  **Sept 2017- March 2018**

*Data Science & Data Visualization Certificate Program*

**SKILLS**

**Languages (Front End Visualization):** HTML, CSS, Bootstrap, Dashboarding, D3.js, Javascript Charting, Handlebars,Git

**Databases:** MySQL, Mongo DB

**Programming Technologies:** Python 3, Pandas, Matplotlib, API Interactions, Social Media Mining, NumPy

**Frameworks/Tools:** Excel VBA, Excel (Modeling and Forecasting)

**PROJECTS**

**Airline Turnover Rate Analysis** (https://github.com/fkanger/Airline\_Turnover\_Analysis)

* Analyzed the high turnover rate of employees and determined the cause (involuntary vs. voluntary)
* Conducted a thorough review using data from the Bureau of Labor Statistics and Lawson ERP System’s Dataset
* Provided recommendations on how to improve retention of employees as well as attraction
* Python, Matplotlib, and Pandas were used

**WeatherPy (**https://github.com/fkanger/Weatherpy**)**

* Created a Python script to visualize the weather of 500+ cities across the world of varying distance from the equator
* Utilized a Python library and the OpenWeatherMap API to create a representative model of weather across world cities
* Created a series of scatterplots to showcase the relationship that temperature, wind speed, cloudiness, and humidity have with the lattitude
* Matplotlib, JSON, and Pandas were used

**Weather Analysis Dashboard** (https://github.com/fkanger/WeatherDashboard)

* Used the graphs collected in the WeatherPy project to create a website to showcase how weather varies based on proximity to the equator
* HTML, CSS, and Bootstrap were used

**Bacteria Biodiversity Dashboard** (https://belly-button-biodiversity.herokuapp.com)

* This project used JavaScript, Plotly.JS, Python, HTML, CSS, Bootstrap, and Flask to explore the Belly Button Biodiversity dataset.
* Using data from CSV files three graphs were built using Plotly and Javascript.
* The pie chart shows the top ten samples for a particular sample id. The bubble chart shows all the samples and OTU ID data points. Metadata for the sample is also displayed and a gauge chart is shown for washing frequency.

**WORK EXPERIENCE**

**C2 Education**  **September 2017- Present**

*Tutor*

* Achieved a 15% increase in score results by tutoring high school students with their preparation for the SAT and ACT
* Created and distributed weekly assignments according to each student’s needs and abilities
* Wrote an in-depth analysis of student performance after every session for parents

**Civil and Environmental Engineering August 2016- December 2016**

*Administrative Assistant*

* Delivered a more efficient database by organizing financial records daily, inputting all records of spending into financial databases for office accountants
* Maintained 100+ departmental accounts, serving as the lead point of contact for Deans and Department Chairs
* Assisted visitors, undergraduate students, professors, graduate students, and staff

**LEADERSHIP,** **AWARDS & CERTIFCATES**

* Youth Choir Director of St. Andrew Kim Catholic Church **August 2016-Present**
* Founder of Eyeglasses-String Music Duo **June 2013-Present**
* Intern Leader at Washington Youth Foundation **June 2011-August 2011**
* Principal Cellist of the University of Maryland Repertoire Orchestra **September 2013-May 2017**
* 2010 Smithsonian Folklife Festival Certificate Award **July 2010**
* President’s Volunteer Service Award **August 2010**