

## Basic Info

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My portfolio website: <http://ariannalangwang.github.io>

Residency Status: U.S. Citizen

## Education

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University of Pennsylvania · 2019 to Current

Master of Computer Science and Information Technology, Computer Science GPA 3.80

North Carolina State University · 2015 to 2017

Master of Statistics GPA 3.93

## Employment

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Data Scientist · The Walt Disney Company · 10/2018 to 09/2019 · Full-time · Seattle, WA

- Programmed in Python on a daily basis. Coded in SQL and used Tableau on a regular basis.
- Was responsible for ad inventory forecasts for all Disney digital television networks. Continuously evaluate new data sources and modeling methodologies to maintain and improve excellence in forecast accuracy.
- Designed and implemented a major revenue prediction project using Facebook's Prophet models instead of the traditional ARIMA & SARIMA statistical models, increased model prediction accuracy by 11.4%.
- Designed and implemented an NLP (natural language processing) project by using fuzzy word matching to find similar movie & show titles in various documents, automated the research team's workflow, and increased team productivity by 15%.

## Projects

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### Image Classification WebApp

- Built an image classification web app that allows a user to upload a photo, then my app can recognize the photo and tell the user what the photo is.
- Utilized TensorFlow's Keras API to work with MobileNets to deploy deep convolutional neural networks (CNNs) model in my web app.
- Utilized Python's Flask framework as the back-end.
- Source code on GitHub: <https://github.com/ariannalangwang/Image-Classification-WebApp>.
- WebApp Demo: [https://www.youtube.com/watch?v=c4w\\_qS3OKag](https://www.youtube.com/watch?v=c4w_qS3OKag).

### YouTube Video Website with React

- Built a website to search YouTube videos to learn the popular front-end framework React.
- Used HTML, CSS, JavaScript, and the React framework, also employed semantic-ui for styling and YouTube's API for data fetching.
- Source code on GitHub: <https://github.com/ariannalangwang/YouTube-Video-Search-WebApp-with-React>.
- Website link: <https://arianna-lang-wang-youtube-videos.vercel.app>.

### Personal Portfolio Website

- built my portfolio website to showcase my side projects and have a place to provide a copy of my resume.
- A good opportunity to learn some web development skills.
- Source code on GitHub: <https://github.com/ariannalangwang/ariannalangwang.github.io>.
- Website link: <https://ariannalangwang.github.io>.

### Global Terrorism Project

- Implemented the whole data science pipeline from data cleaning, data wrangling, and data exploration to predictive modeling, model evaluations, data presentation, and storytelling.
- Trained and tested data on various machine learning models such as random forest, logistic regression, PCA (principal component analysis), and SVM (support vector machines) models.
- Source code on GitHub: <https://github.com/ariannalangwang/Global-Terrorism-Project>.
- Written report: <https://www.linkedin.com/pulse/analyzing-global-terrorism-arianna-lang-wang>.

## Skills

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**Programming Languages:** Java, Python, C, Javascript, SQL, HTML, CSS

**Libraries & Frameworks:** React, Flask, Bootstrap4, Pandas, Scikit-Learn

**Others:** Git, GitHub, Linux, LaTeX, Tableau, Heroku

**Machine Learning:** Linear Regression, Logistic Regression, Support Vector Machines, Decision Tree & Random Forest, K Nearest Neighbors, Principal Component Analysis, K Mean Clustering, Naïve Bayes