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**Basic Info**

Seeking software engineer roles · residency status: U.S. Citizen

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**Education**

University of Pennsylvania	2019 to 2022 · GPA 3.80
Master of Computer Science and Information Technology, Computer Science	
North Carolina State University	2015 to 2017 · GPA 3.93
Master of Statistics	

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**Work Experience**

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

- Programmed in Python daily. Coded in SQL and used Tableau on a regular basis.
- Designed and built a major ad 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 built 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.
- Oversaw ad revenue forecasts for Disney digital television networks. Continuously evaluated new data sources and modeling methodologies to maintain and improve excellence in forecast accuracy.

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**Selected Projects****Image Classification WebApp**

- Built an image classification web app that allows a user to upload photos, then recognize what the photos are.
- Utilized TensorFlow's Keras API to work with MobileNets to deploy deep convolutional neural networks (CNNs) model in my web app.
- Taught myself Python's Flask framework and used it 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 a portfolio website to showcase my side projects and my resume.
- Learned and practiced 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>.

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**Skills**

Languages	Java, Python, C, SQL
Web Development	HTML, CSS, JavaScript, Bootstrap, React, Flask
Tools & Platforms	Git, GitHub, Linux, LaTeX, Tableau, Heroku
Data Science	Data Cleaning & Wrangling, Predictive Modeling, Model Evaluation, Data Visualization
Machine Learning	Linear Regression, Logistic Regression, Support Vector Machines, Decision Tree & Random Forest, K Nearest Neighbors, Principal Component Analysis, K Mean Clustering
Currently Learning	NodeJS, ExpressJS, MongoDB