***ALEXANDER J. FLYNN***

Portfolio*:* <https://aflynn0213.github.io/data-science-portfolio/>

**EDUCATION**

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| **Master of Science in Engineering Data Analytics and Statistics**  *Washington University in Saint Louis*  Relevant Courses:   * AI/Machine Learning   + Introduction to Machine Learning and Pattern Classification   + Artificial Intelligence   + Graduate Machine Learning * Applied Mathematics and Statistics   + Random Processes and Kalman Filtering   + Probability and Stochastic Processes   + Linear Dynamic Systems   + Detection/Estimation Theory   + Optimization | **Graduated May 2023**  Saint Louis, MO  **GPA 3.64** |
| **Bachelor of Science in Electrical Engineering**  *University of Missouri - Columbia*  Minors:   * Mathematics * Computer Science | **Graduated May 2019**  Columbia, MO  **ECE GPA: 3.84** |

**RELEVANT EXPERIENCE**

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| **Real Time Software Engineer,** *The Boeing Company*   * Developed models and simulations for Avionics Systems using C, C++, and Ada in a Linux environment for USAF pilots. * Occupied the role of Electronic Warfare Subject Matter Expert, while also working on Digital Communication and Navigation capabilities under RTOS constraints. * Developed and utilized an automated regression test suite in C# within Visual Studio to discover defects and ensure efficient integration of new capabilities with legacy systems. * Integrated Mid-Mission initialization capability, reducing boot-up time from 15 minutes to less than a minute, saving hundreds of hours monthly. | **July 2020-Present** |
| **Electronic System Design and Analysis Engineer,** *The Boeing Company*   * Defined and updated system and software requirements to enhance system efficiency and traceability for avionic systems on an Air Force platform. * Developed and maintained avionic systems' design architectures, including interface and sequential diagrams, to improve use-case capability algorithms. * Successfully created the Interface Control Document for the Digital Communication Capability on the Warfighter, establishing a contractual obligation with the customer. | **June 2019-July 2020** |

**Skills**:

Python, SQL, Tensorflow, Keras, Pandas, NumPy, PyMC, PyTorch, Jupyter Notebook, Matplotlib AWS, C, C++, C#, Ada, PHP, HTML, JavaScript, MATLAB, ARM assembly, R, Linux Development, Windows Development, Visual Studio, Robotics Operating System (ROS), Git, Jenkins, VersionOne, AGILE, Snowflake, Power BI, Tableau, Docker