***ALEXANDER J. FLYNN***

**LinkedIn:** <https://www.linkedin.com/in/alex-flynn-72b500265/>

**EDUCATION**

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| **Master of Science in Engineering Data Analytics and Statistics**  *Washington University in Saint Louis*  Capstone Project:  <https://github.com/aflynn0213/MovieRecommenderForDummies>  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,* Berkeley, Missouri   * Occupied the role of Electronic Warfare Subject Matter Expert, developing software for the Digital Communication and Navigation capabilities in a simulation environment under RTOS constraints. * Architected and developed Sensor Fusion and Digital Signal Processing simulation models. * Integrated a Mid-Mission initialization capability, reducing boot-up time from 15 minutes to less than a minute, saving the program hundreds of hours of wasted time monthly. * Developed Vehicle Management System software including navigation and embedded control algorithms. | **July 2020-Present** |
| **Electronic System Design and Analysis Engineer,** *The Boeing Company,* Berkeley, Missouri   * Architected system software to enhance the Digital Signal Processing, Digital Communication, and Sensor Fusion capabilities for an Air Force Warfighter. * Created use-case scenarios, interface documents, and sequential logic diagrams for the Sensor Fusion and Digital Radio computers. * Successfully created the Program's published 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

**Baseball Sample Prediction Project**:

<https://github.com/aflynn0213/FantasyPlayerEvaluation/blob/master/Expected_K_BB%25/k_bb_prediction.ipynb>

**GitHub***:* <https://github.com/aflynn0213>