ALEXANDER J. FLYNN

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

EDUCATION

Master of Science in Engineering Data Analytics and Statistics	**Graduated May 2023**
Washington University in Saint Louis	Saint Louis, MO
	GPA 3.64

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

Bachelor of Science in Electrical Engineering	**Graduated May 2019**
University of Missouri - Columbia	Columbia, MO
	ECE GPA: 3.84

Minors:

- Mathematics
- Computer Science

RELEVANT EXPERIENCE

Real Time Software Engineer, *The Boeing Company,* Berkeley, Missouri	**July 2020-Present**

- 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.

Electronic System Design and Analysis Engineer, *The Boeing Company,* Berkeley, Missouri	**June 2019-July 2020**

- 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.

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