

# Matthew Plambeck

Williamsburg, VA | 206-612-2877 | maplambeck@wm.edu | <https://github.com/MAP9900> | [www.linkedin.com/in/matthew-plambeck](https://www.linkedin.com/in/matthew-plambeck)

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## EDUCATION

The College of William & Mary

Williamsburg, VA. Expected: *May 2026*

- Intended Data Science Major & History Minor
- Current GPA: 3.77

## EXPERIENCE

Aftersales Analyst Intern, PACCAR Parts

*May-Present 2025*

- Supported the Service Management, Technical Bulletins, and Technical Publications teams through data analysis, dashboard creation, and workflow optimization.
- Built Tableau dashboards and automated Excel reports with Python to track dealer performance and flag underperformers.
- Improved team efficiency by consolidating Kenworth and Peterbilt workflows in Smartsheet following an internal re-org. Built dashboards to provide visibility into service manual and bulletin progress.

Project Intern, Flagship RTL

*August-September 2024*

- Conducted research on scalable methods to rank clothing retailers' SKUs based on historical sales data. Developed Python functions to provide insights into sales data at the style and SKU levels, which were then used to categorize SKUs as A, B, or C. Transitioned the project to the data science team for implementation into Flagship's workflow.

## LEADERSHIP & ACTIVITIES

VP of Risk Management, Beta Theta Pi, Zeta Upsilon Chapter

*September 2023-May 2025*

- Lead and schedule investigations, interviews, and conduct meetings. Assist in enforcing disciplinary and rehabilitative sanctions as well as aiding in planning of chapter wide events.

Volunteer, Mercer Island Thrift Store

*June-August 2024*

- Excepted and sorted donations while preventing a friendly environment to both donors and customers.

## PROJECTS

Predicting Survivability of North Atlantic Convoys from WWII

*October 2023-Present*

- Collected nearly 70,000 merchant and escort ship records via web-scraping, cleaned and verified the data using a secondary source, and then organized it by convoy denominations.
- Fit models to predict ship sink percentages of convoys, however, due to poorly performing models, switched to classifiers predicting high or low risk convoys. Added features to improve classifiers and conducted feature analysis to identify leading causes in at risk convoys.
- Currently working on refining classifiers, adding more visualizations of the data, and performing time series analysis. Additionally, transitioning the project to be research for William & Mary.
- Project Webpage: <https://map9900.github.io/Modeling-WWII-Convoys.github.io/>

The Convoy System of WWII: A Look into its Effectiveness Through Data Science

*July-September 2023*

- Used WWII era equations and simplified simulations of ships at sea to highlight some of the factors that made convoys more effective than individual ships.
- Wrote and published a short article of my findings on Medium:  
<https://medium.com/@matthewplambeck99/the-convoy-system-of-wwii-a-look-into-its-effectiveness-through-data-science-6674b02227b5>

## CERTIFICATIONS

Applied Data Science with Python (University of Michigan x Coursera)

*June-August 2023*

- A series of five Python courses (Introduction to Data Science, Plotting, Charting & Data Representation, Machine Learning, Text Mining, and Social Network Analysis) providing a solid foundation in core Data Science topics.