Rygel Yance

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LinkedIn | GitHub

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Education:

B.S. University of Maryland – College Park, Major(s): Computer Science and Mathematics May 2025

Relevant Coursework:

Student, University of Maryland

Computer Science – Machine Learning Track 2022-2025

- Object-Oriented Programming I & Object-Oriented Programming II
- Introduction to Computer Systems
- Discrete Structures
- Organization of Programming Languages
- Algorithms
- Introduction to Machine Learning

Mathematics – Statistics Track 2022-2025

- Applied Statistics & Probability I & II
- Introduction to Linear Algebra & Applications of Linear Algebra
- Computational Methods
- Calculus I, II, II & Advanced Calculus I & II

Experience:

Immersive Research Internship Experience (IRIE) | GitHub Page

Undergraduate Research Assistant Summer 2024

- **What:** Worked with Assistant Clinical Professor Thanicha Ruangmas to analyze how the opening of the METRO Green & Blue light rail lines affected demographic groups in Minneapolis & St. Paul, MN
- **Used:** R, GitHub, tidyverse, tidycensus, tigris, terra, dplyr, ggplot2, maptiles, knitr
- **Data Collection:** Queried PM2.5 data from NASA Earth, meteorological data from the GLDAS Catchment Land Surface Model L4.
- **Results:** Found that the opening of the light rail led to between a 15-18% reduction in PM2.5 air pollution across all age groups, with younger age groups seeing slightly higher reductions

Awards and Honors:

- Dean's List – Three Semesters
    - Awarded for having a 3.5 grade point average or above in a semester with 12+ credits

Programming Skills:

- **Languages (Sorted by proficiency):**
    - **Advanced:** Java, C, R
    - **Intermediate:** OCaml, Rust, Matlab, Python
    - **Beginner:** MIPS Assembly, HTML
- **Technologies:** Git