Rakesh Krishnan

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Objective: Harness the power of data and analytics to drive solutions to climate change and societal challenges

EDUCATION

University of Michigan, Ann Arbor   **Graduation May, 2025**

B.S. in Data Science, Environment (Double Major), Undergraduate Honors Program
- 3.92/4.0 Cumulative GPA, 68 total credits, 100/120 credits by May 2024, 34 on ACT
- <u>William J. Branstorm Prize Recipient</u>: Awarded to freshmen who rank in the upper five percent of their class
- <u>Past Classes:</u> Programming & Data Structures (EECS 280), Calculus III (MATH 215), Economics (ECON 101), Data Structures & Algorithms (EECS 281) , CS Pragmatics (EECS 201), Probability & Statistics (STATS 412)
- <u>Current Classes:</u> Linear Algebra (MATH 214), Web Systems (EECS 485), Statistical Computing (DATASCI 306)

WORK EXPERIENCE

BLUElab Metro   **September 2022 – Present**

Team Member   *Ann Arbor, MI*
- Developed and executed equitable solutions to engage the community to achieve full electrification of over 800 houses in Bryant, Ann Arbor while minimizing gentrification, benefitting over 3,000 local residents.
- Engaged in skill building workshops, including project planning, python, C++, and leadership workshops
- Collaborated with community leaders and A2Zero to build support for the electrifying project.

Montgomery County Green New Deal   **July 2021 – June 2023**

Intern, Activist   *Rockville, MD*
- Organized multiple climate protests of hundreds of people and eloquently represented the internship program for the media interviewers of local news sites, magazines, and TV channels: [Article 1](#), [Article 2](#)
- Created a video that brought in over $2,000 in funding for the internship from people across the United States, and built relationships that have amassed $1000s of dollars more in new donor funding.
- Gave a passionate five minute long speech about the intersectionality of climate change for hundreds of people, including Montgomery County Executives and Board Members, at a major University of Maryland event.

Bethesda Green   **June 2021 – May 2022**

Intern, Environmental Leader   *Bethesda, MD*
- Managed and coordinated Bethesda's Teen Science Cafe Program by connecting with professionals, drawing in dozens of participants, interviewing prospective leadership, and setting the program up for continued growth.
- Lead in outreach efforts and created social media content covering the importance of renewable energy sources.
- Produced a fun, informative video series on renewable energy generation: [Official YouTube playlist](#)

Projects

- **NBA Team Creator:** Personal project written in C++ involving user interaction. The user drafts a team of NBA players from a vast pool and competes against an optimized, but fair computer generated team.
- **Metro Solver:** Personal project written in C++ where I built a connected database of the current metro stops and used Dijkstra's algorithm to find the shortest path between any two desired metro stations on the map.
- **Classifier:** Used machine learning and natural language processing with over 1,500 data sets from previous semesters to train a Naive Bayes Classifier that could categorize forum posts with about 88% accuracy.
- **3D Maze:** Developed and implemented an optimized algorithm that solves 3D mazes of 20 million cubic units
- **Zombies:** Created an automated zombie defense game, involving the use of complex data structures.
- **Euchre:** Coded a simulation of a popular Michigan card game, and then created an AI that could also play it.
- **Zoo:** Developed and implemented fast and optimal algorithms to solve the Travelling Salesman problem.
- **Bank:** Built the internal structure of a bank, able to facilitate transactions, track fraud, and store user history.

SKILLS, AWARDS, & INTERESTS

- **Skills:** C++, Hindi, Git, Python, Makefile, Shell Script, R, HTML/CSS, React, SQL, Fast Learner
- **Awards:** Certificate of Meritorious Service, NIH Career Development Certificate, Federal Asian Pacific American Council (FAPAC) Best Community Project Award
- **Interests:** Web Development, Social Justice, Mystery Novels, Media Production, Fitness, Psychology