

# Ayman Khan

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## Education

### Middlebury College

*Candidate for Bachelor of Arts, Major in Computer Science*

**Middlebury, VT**

*Expected May 2025*

**Relevant Coursework:** Linear Algebra, Computing for the Sciences, Data Structures, Data Across Disciplines, Machine Learning, Computer Graphics, Regression, Delving into Data, Statistical Learning, Algorithms and Complexity, Software Development, Natural Language Processing.

**Computer Skills:** Python, React, NextJS, R, Java, JavaScript, HTML, CSS, WebGL, Stata, SQL, Excel.

## Experience

### Green Mountain Care Board

*Data Analyst Intern*

**Montpelier, VT**

*June 2024 - Present*

- Conducted comprehensive data analysis and visualization of healthcare appointment wait times, contributing to strategies for improving patient access to care.
- Collaborated with the hospital finance team to collect, process, and analyze healthcare quality data, supporting informed decision-making.
- Performed qualitative interviews with a diverse cross-section of Vermont healthcare providers, generating insights into the current landscape of cost, quality, and access to care.

### Fairbanks Museum & Planetarium

*Data Analyst Intern*

**Hybrid, St. Johnsbury, VT**

*June 2023 - August 2023*

- Used the Tesseract machine learning library in Python to convert handwritten data to Excel.
- Employed R libraries (dplyr, tidyverse, ggplot) for data analysis and visualization of flower bloom and fruit dates trends.
- Managed an online Zooniverse data dashboard for publishing visualizations and data.

### Beyond Borders Orphan Aid

*Senior Web Developer (Part-Time)*

**Remote, Mandera, Kenya**

*January 2024 - Present*

- Developed the website for a non-profit organization supporting orphan education in Mandera, Kenya using JavaScript, HTML, and CSS.
- Currently converting the website to React framework for enhanced performance.
- Creating a database to store information about newsletter subscribers and donors.

## Side Projects

### Investigating the Attributes that Influence Player Ratings in FC24

- Utilized Support Vector Machine (SVM) to predict player ratings in FC24 based on physical attributes.
- Applied hierarchical clustering and principal component analysis to assess attribute impacts on player ratings.
- Conducted data analysis and visualizations using R.
- <https://aymankhan2003.github.io/aymansportfolio.github.io/assets/FinalStats.html>

### Market Value Predictor

- Implemented machine learning models (random forest regression, LASSO) to predict soccer player market values.
- Conducted data manipulation and extensive analysis using R, including web scraping.
- Performed feature engineering in Python with scikit-learn, pandas, and numpy.
- <https://aymankhan2003.github.io/posts/project/ProjectBlogPost.html>

## Additional

LinkedIn: [www.linkedin.com/in/ayman-khan-9b10a91b2](https://www.linkedin.com/in/ayman-khan-9b10a91b2)

Personal Portfolio: <https://aymankhan2003.github.io/aymansportfolio.github.io/>