

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

- Analyzing and visualizing data on health care appointment wait times and researching ways to improve access to care.
- Assisting hospital finance team with collecting and analyzing health care quality data.
- Qualitative interviewing of a cross section of Vermont health care providers to understand the current landscape in Vermont related to cost, quality, and access to care.

Fairbanks Museum & Planetarium

Data Analyst Intern

Hybrid, St. Johnsbury, VT

June 2023 - August 2023

- Used a machine learning library in Python called Tesseract to convert handwritten data text to Excel.
- Used libraries like dplyr, tidyverse, and ggplot to perform analysis on the data and create visualizations regarding trends of flower bloom dates and fruit dates in R.
- Managed an online Zooniverse data dashboard where all the visualizations and data were to be published.

Beyond Borders Orphan Aid

Senior Web Developer

Remote, Mandera, Kenya

January 2024 - Present

- Built the website for the Non-Profit that aims to serve as a bridge to education for Orphan Kids in Mandera, Kenya.
- Coded using pure JavaScript, HTML, and CSS.
- Working on converting the website to use a REACT framework and working on a faster runtime.
- Working on creating a database for the website to store the information of the people who signed up for newsletters and donations.

Side Projects

Investigating the Attributes that Influence Player Ratings in FC24

- Used a SVM (Support Vector Machine) model to predict player ratings in FC24 with physical attributes.
- Used hierarchical clustering and principal component analysis to analyze how different attributes affect player ratings.
- Used R to perform data analysis and create the visualizations by manipulating the data.
- <https://aymankhan2003.github.io/aymansportfolio.github.io/assets/FinalStats.html>

Market Value Predictor

- Used machine learning concepts like random forest regression and LASSO to create a model that predicts market value of soccer players.
- Used R to perform data manipulation such as web scraping and extensive analysis of the data used to create the model.
- Performed feature engineering in Python using scikit-learn, pandas, and numpy to determine which variables would be confounders of our model.
- <https://aymankhan2003.github.io/posts/project/ProjectBlogPost.html>

Additional

LinkedIn: www.linkedin.com/in/ayman-khan-9b10a91b2

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