

# Manovay Sharma

425-362-0045 | manovays2004@gmail.com

## EDUCATION

University of Massachusetts Amherst, MA

Fall 2023 - Spring 2025

Bachelor's of Informatics (Concentration in Data Science), Minor in Computer Science

GPA: 3.7

Coursework: Databases/Data Structures/Object Oriented Programming/Predictive Analytics/Data Science/Web Programming/Calculus 1-2/Statistics/Discrete Math Foundations/Linear Algebra

## SKILLS

Technical Skills: Advanced - Java, R, Python / Intermediate - JavaScript, SQL, Racket, MongoDB

Languages: English (Fluent), Hindi (Conversational)

## EXPERIENCE

UMass URV, Amherst, MA

December 2023 - February 2024

Undergraduate Researcher

- **Partnered** with a PhD-led team to investigate advanced techniques in program synthesis and natural language processing.
- **Utilized** Rosette, a Racket library, to analyze and benchmark program synthesis capabilities against GPT models.
- **Acquired** interdisciplinary knowledge in machine learning and program synthesis through hands-on research.

Red Robin, Redmond, WA

November 2022 - April 2023

Line Cook

- **Thrived** in a fast-paced kitchen environment, managing multiple tasks and deadlines.
- **Collaborated** with team members to ensure seamless operations, developed problem-solving skills under pressure.

## PROJECTS

Motorcycle Rideability Web Application

August 2024

- **Developed** a full-stack web-based app providing real-time rideability scores for motorcyclists based on weather conditions.
- **Implemented** live weather data retrieval using OpenWeather API, using user input ZIP codes for locations.
- **Designed** a responsive user interface using HTML/CSS/JavaScript, including input validation and dynamic pages.
- **Created CRUD** functionality using Node.js/Express/PouchDB for storing and managing data.
- **Built** RESTful API endpoints for creating, updating, deleting and fetching search entries.

Predicting NFL MVPs

February 2024 - June 2024

- **Collaborated** on a semester-long research project to identify key variables influencing NFL MVP selection
- **Performed** statistical analysis using Linear Regression, MANOVA, and Contingency Tables in studio RStudio to examine data from 30+ NFL seasons.
- **Extracted** information on the correlation between player statistics (passing/rushing yards, etc.) and MVP candidacy.
- **Developed** regression models and decision trees to predict future MVP candidates.

Comic Subscription App

September 2024

- **Developed** a full-stack web-based app enabling users to subscribe to comic series' and receive real-time notifications.
- **Designed** a responsive frontend using HTML/CSS/JavaScript allowing users to search for characters/series.
- **Built** a Node.js and Express backend with MongoDB Atlas for efficient data storage and retrieval of user data..
- **Integrated** Marvel API, to fetch comic data and display series'.
- **Utilized** SendGrid and Twilio APIs to automate email and SMS notifications for new issues of comics.
- **Implemented** daily cron jobs to check for updates to comic series.

## LEADERSHIP & COMMUNITY INVOLVEMENT

Social Chair - Beta Chi Theta Fraternity

May 2024 - Present

- **Manage** a social media account with 1500+ followers, creating exciting and informational graphics and posts to boost recruitment and engagement.
- **Coordinate** and schedule social and philanthropic events, ensuring high turnout and subsequent donations towards our partners in raising awareness for mental health.