

# Harkeerat Singh Mayall

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## EXPERIENCE

### HUMAN COMPUTING & BIONFORMATICS LAB | STUDENT RESEARCH ASSISTANT,

UNIVERSITY OF MANITOBA

May 2022 – Present | Winnipeg, Manitoba

- Contributed to the **RNA Seq Analysis project** and comprehensively analyzed various techniques to transform RNA sequences into analyzable data using Python.
- Used R to apply techniques and draw insights from raw data.
- Built a **pipeline of R commands in Python using subprocess module** to further visualize and study the data.

### MYALSTONE – RANGERSTORK INDIA | IT SUPPORT SPECIALIST

Jan 2018 – Dec 2020 | New Delhi, India

- **Remodeled the company inventory system** by integrating Microsoft Excel and **integrated a program coded in Python and MySQL for data management to easily access items in the inventory.**
- Analyzed the inventory space to **identify peak sales time and predict inventory space** required for the following year to drastically reduce deadstock percentage.
- Designed company logo and product catalog using Photoshop.

### PROJECT UNNATI – ENACTUS | VOLUNTEER DIGITAL LITERACY TEACHER

July 2019 – March 2020 | New Delhi, India

- Organized and coordinated **digital literacy workshops for women and children to enhance computer literacy.**
- **Imparted basic computer knowledge**, including internet usage and the basics of Microsoft applications like word, etc.

## PROJECTS

### STOCK NEWS SENTIMENT ANALYZER | Github

- Coded a program that **parsed stock news data** for certain stocks from finviz.com using **BeautifulSoup4 library.**
- Utilized **NLTK Vader Library to conduct sentiment analysis** on news headlines.
- Visualized the analyzed data using Pandas and Matplotlib.
- Retrieved prices from yfinance to **compare the impact of headlines on prices of the targeted stocks.**

### BOOK STORE INVENTORY SYSTEM | Github

- Implemented an **inventory system using Python** having the capabilities of a real-time inventory system.
- Allows users to **add new books and keep track** of their information.
- Built an **easy-to-use, user-friendly** interface using Tkinter.
- Improved the **data management system by using MySQL** for retrieving and storing all the details.
- Modified this inventory system to use it to store information of tools and products for a previous employer.

### PORTFOLIO WEBSITE | <https://mayallhs.github.io> | Github

- Designed and built a portfolio website to showcase personal projects and technical experience.
- Used HTML, CSS, JavaScript to create the design and hosted it on Github Pages.

## EDUCATION

### UNIVERSITY OF MANITOBA

Undergraduate | Jan 2021 - Present | Winnipeg, Manitoba, CA

Bachelors in Computer Science

**GPA: 4.45 / 4.5**

- Received the **Undergraduate Student Research Award**, joined the Human Computing & Bioinformatics lab under Prof. Olivier Tremblay-Savard.

- **Dean's Honor List 2021-2022.**

- **UMSU Scholarship 2021-2022.**

- **International Undergraduate Student Scholarship 2021-2022.**

- 2022 ICPC North Central NA Regional Contest Honorable Award.

### AMITY INTERNATIONAL SCHOOL

High School | 2018-2020 | New Delhi, India

Class XII - **Grade: 97.8%**

- Achieved top **0.1 percentile** of the 2 million students appeared for the AISCCE XII high school exams.

## SKILLS

### PROGRAMMING

• Python • Java • R • SQL • CSS • HTML •

### LIBRARIES/Frameworks

• Tkinter • Numpy • Pandas • PyGame • Subprocess • NLTK • BeautifulSoup

### TOOLS/PLATFORMS

• Git • Github • Photoshop • Wordpress •

## EXTRA-CURRICULAR

- Active Member of **University of Manitoba's Computer Science Students Association, .DevClub and Women in Computer Science societies.**

- Won district, zonal, inter-school, and school level basketball competitions in the span of six years.

- Attained a professional diploma in Instrumental Music (Tabla)