Vansh Rastogi

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Education

Bachelor of Computer Science Honours (Co-op Option) *University of Manitoba*
GPA: 4.2/4.50 *January 2023 - Present*
International Undergraduate Student Scholarship
International UG. Student Entrance Scholarship Tier 1
Undergraduate Student Research Award

Skills

Coding Languages	Java, JavaScript, Python, C, C++, R, MySQL
Tools	React, Node.js, Express.js, Visual Studio Code, IntelliJ, Clion, Git, GitHub, RStudio, Unix, R Markdown, PyTorch, ML, Firebase, MongoDB, Powershell, API, MS Teams, Postman
Soft Skills	Problem-Solving, Communication, Teamwork, Adaptability, Time management, Critical thinking, Attention to detail, Leadership

Research Experience

Undergraduate Student Research Assistant *May 2025 - Present*
Department of Computer Science - Supervised by Dr. Azadeh Tabiban *University of Manitoba*

- Engaged in collaborative research with a graduate student in the FOCUS lab and worked on evading provenance-based intrusion detection systems by mimicking benign activities around malicious nodes.
- Improved evasion efficiency for multiple datasets by altering hyperparameters in the different steps of the evasion methodology. Trained PIDS models on multiple datasets to compare results between different IDS's.

Projects

U of M Spaces – The Ultimate U of M Navigation Guide *February 2025*
React, Express.js, JS Rest API, MapBox GL, Git, Vite *Hackathon Project*

- View study spaces on a fully interactive, 3D-enhanced map using the Mapbox GL API, to create a dark theme-based map with pinpoint coordinates.
- Provided detailed space information including images and timings, with dynamic updating location status.
- Provided seamless navigation by providing an optimal path from user's current location to the building of interest.

V-Chat – App for Real-time messaging between users *December 2024*
JS Rest API, Web Sockets, React, Firebase Firestore *Personal Project*

- Developed a Rest API using Express.js library to effectively communicate between frontend and backend of the Web Application.
- Incorporated Web sockets to enable fast and real time communication between users.
- Used Google Authentication technique to efficiently login users using Google tokens by my Firebase project.

Doubtnet – App to share doubts and respond
JS Rest API, React, MongoDB, expressJS

December 2023
Personal Project

- Developed a Rest API using expressJS library to effectively communicate between frontend and backend of the Web Application.
- Created well-structured database schemas to store various types of information seamlessly.
- Used manual authentication techniques and encrypted passwords to ensure security of user data.

Certifications

Advanced Learning Algorithms
June 2024

DeepLearning.AI, Stanford University

- Build and train a neural network with TensorFlow to perform multi-class classification.
- Apply best practices for machine learning development so that models generalize to data and tasks in the real world.

Supervised Machine Learning: Regression and Classification
May 2024

DeepLearning.AI, Stanford University

- Build machine learning models in Python using popular machine learning libraries NumPy and scikit-learn.
- Build and train supervised machine learning models for prediction and binary classification tasks, including linear and logistic regression.

Work experience

Floor Clerk
August 2025 - Present

University of Manitoba Bookstore
Winnipeg, MB

- Delivered knowledgeable and courteous customer service by assisting students with course materials, answering inquiries in-person and over the phone
- Supported store operations by stocking and monitoring shelves, organizing merchandise, and ensuring a clean and accessible environment.

Grocery Associate
September 2024 - April 2025

Walmart Canada
Winnipeg, MB

- Provided exceptional customer service by guiding customers to product locations and answering related queries.
- Maintained correct inventory information and a well-maintained and clean sales floor by monitoring.

Sales Advisor
April 2023 - July 2024

Club Demonstration Services
Winnipeg, MB

- Provided customer service by providing customers with product information.
- Achieved Sales Incentive Target of 5000 products 3 times.
- Communicated with customers to resolve doubts and promote products.

Extracurricular activities

Technical Member
April 2021 - June 2022

Studomatrix – Students for Holistic Development
Meerut, India

- Organized online workshops and events with a team, in various fields of art, by co-operating and communicating with people across India, for Students across the Country.

Badminton Team Captain
April 2019 - April 2021

St. Mary's Academy
Meerut, India

- Led the High School Badminton Team to the U-17 category semi-finals in district level competitions.