Shraddha Singh

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EDUCATION

Dalhousie University   Halifax, NS
Bachelor of Science in Computer Science and Physics   *September 2021- May 2025*
- Relevant Coursework: Data Structures and Algorithms, Database Systems, Software Development, Web Design and Development, Computer Systems

EXPERIENCE

Research Assistant   February 2023 – Present
Supervisor: Dr. Thomas Trappenberg   *Halifax,NS*
- Working on a research project to develop automated image processing models by utilizing deep learning techniques for the automatic detection and labeling of ocean imagery.

Teaching Assistant   January 2023 – Present
Dalhousie University   *Halifax,NS*
- Taught concepts of computer systems such as data and program representation, program translation, and operating systems for CSCI 1120 (Introduction to Computer Systems) course.
- Held office hours for over 70 students, providing one-on-one support and assistance with course material.
- Provided individualized support to students, created and managed 10+ lesson plans for lab sessions, and evaluated students' understanding of the material.

Google Developer Student Clubs Technical Member   October 2022 – December 2022
Dalhousie University   *Halifax,NS*
- Coordinated and delivered hands-on technical workshops on Dialogflow and Contact Center AI for 45 participants to showcase strong leadership and technical skills.

PROJECTS

Spotify Music Recommendation System | *Python, Pandas, Scikit-learn, Spotify Web API*
- Developed a personalized music recommendation system using Python and machine learning techniques based on user's listening history and track metadata.
- Utilized Spotify API and cosine similarity to calculate similarity scores and generate tailored song recommendations..

Chat Room WebApp | *Redux, React, MongoDB, NodeJS, Express, socket.io*
- Developed a real-time chat room web application using Express and MongoDB database with React as the frontend.
- Incorporated features such as user authentication, online/offline presence indicators, and real-time messaging via socket.io.

Ecommerce Website | *Redux, React, MongoDB, NodeJS, Express, Stripe*
- Developed a full-featured e-commerce website using the MERN stack with Redux for state management for the shopping cart.
- Utilized Stripe API for handling payment transactions.
- Incorporated a shopping cart and order management system for customers to manage their orders.

PathFinding Visualizer | *Python, PyGame, Git*
- Developed and implemented the A* algorithm to find the optimal path between two points on a grid.
- Created a user-friendly graphical interface using Pygame library to demonstrate the pathfinding process.
- Incorporated obstacles, such as walls, to show the effect on the pathfinding process.

SKILLS

Programming Languages: Java, Python, R, C/C++, JavaScript, HTML/CSS
Cloud / Deployment: Flask, Heroku, AWS EC2 instance, Dockers
Database : MySQL, MongoDB, PostgreSQL
Libraries: pandas, NumPy, Keras, OpenCV, Scikit-learn, Express.JS
Soft Skills: Communication Skills, Adaptability, Time Management, Problem Solving, Leadership