Isha Sharma

Experienced in front-end web development, machine learning, and software development. Interested in summer 2021 internships.

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EXPERIENCE

Web Developer - iGEM Toronto **Sept. 2020 - Present**

- Responsible for front-end development of website using **HTML**, **CSS**, **Javascript**, and **Bootstrap**
- Debugged stylistic and deployment errors on my pages, as well as those of team members, and integrated code, using command line tools, with **Git/GitHub**

Dry Lab Researcher - iGEM Toronto **Apr. 2020 - Sept. 2020**

- Created a dataset of 50,000 protein sequences and utilized **Python**, **GPT2**, **PyTorch**, **Pandas**, and **Numpy** to make a machine learning model that can generate protein inhibitors for SARS-CoV-2 proteins
- Modeled SARS-CoV-2 proteins using a protein modeling software, **PyMol**
- Compiled findings and research into a presentation and research report

LearnAI Logistics Lead - University of Toronto Artificial Intelligence Group **Apr. 2020 - Present**

- Organizing the implementation, i.e. mode of delivery, reviewing applications, hiring TAs, etc., of a machine learning (ML) curriculum targeted to foster undergraduate interest in ML at an earlier stage in their university careers
- Working on outreach to other technical clubs for joint club projects

PROJECTS

Vision Checker - MedHacks 2020

- Developed the front-end of a website that provides virtual eye exams for patients to ensure quality care during the COVID-19 pandemic, using **HTML, CSS, JavaScript**, and **Bootstrap**
- Used **Google Cloud** to store audio files and feed it into a scoring function to compute a user's visual acuity score
- *Winner of the Google COVID-19 Hackathon Fund*

Euphoric Lyric - Hack the 6ix 2020

- Utilized **Python**, **Keras**, **Numpy**, **TensorFlow**, and **audio2numpy** to develop a machine learning model that can generate lyrics for any audio sample with corresponding timestamps
- Learned how to process audio files and convert them to different formats

Conference App - CSC207 (Software Design)

- Designed the structure of a conferencing app, using CRC cards
- Implemeted the application in **Java**, in adherence with and using SOLID principles, Clean Architecture, UML diagrams, design patterns, and object-oriented programming

EDUCATION

University of Toronto **2019 - 2023**

Hon. B.Sc. - Major in Cell and Molecular Biology, with double minors in Computer Science and Statistics

Relevant Courses (2020-2021): Software Design (Java), Software Tools and Systems Programming (C), Computer Organization (Assembly)

SKILLS

Programming Languages: Python, HTML, CSS, JavaScript, Java, C
Libraries/Frameworks: Pandas, Numpy, Bootstrap, jQuery, Node, Express, MongoDB, PyTorch, GPT2
Tools/Platforms: Git/GitHub, Command Line, Figma, PyMol, Visual Studio Code
Soft Skills: Communication, Leadership, Public Speaking, Problem Solving