JESSICA TANG

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Languages: Python, C++, C, MATLAB, HTML, CSS, JavaScript

UC4		

University of Toronto Bachelor of Applied Science in Engineering Science (Machine Intelligence) Computer Programming, Data Structures & Algorithms, Linear Algebra, Calculus I & II	Sept 2022 - Present			
Simon Fraser University — Sept 2021 - Apr 2 Grade 12 Concurrent Enrollment Student: Introduction to Computer Programming I & II, 3.84 GPA				
EXPERIENCE				
University of Maryland Medical Intelligent Imaging Center Researcher • Onboarding for a project in detection and classification with medical imaging AI datasets • Conducting research literature review on research papers	Nov 2022 - Present using deep learning			
 aUToronto Mapping Team Developer Building a self-driving car, maintaining, updating, and testing large Python codebase to various outdoor environments with JOSM 	Sept 2022 - Present automate HD maps for			
 Memorial Sloan Kettering Cancer Centre Student Researcher Researched motif discovery in mRNA translation for targeted therapy in Lymphoma Used suffix trees to improve efficiency and neural networks to predict changes in transcri 	Jan 2021 - Dec 2021 pt levels			

PROJECTS

RotaSat (2022)

Designed and built a can-sized satellite with a radio data transmitter and active attitude control system. Developed the ground control system software and post-launch data analysis. Finalist of the European CanSat Competition, winner of Canadian CanSat Design Challenge.

Deep Reinforcement Learning Controller for Indoor Farming (2021)

Implemented and trained a Deep Q-Learning Neural Network for the autonomous controller, employing the experience replay memory technique. Conference-published paper at International Student Conference On Artificial Intelligence (Nanyang Technological University).

Introduction to Artificial Intelligence Curriculum (2021)

Developed introductory AI bootcamp curriculum for high school students, implemented by Bronx School of Sciences

Facial Emotion Recognition Model using Classification and Convolutional Neural Networks (2020)

Classified images dataset using various classification algorithms, a convolutional neural network, and implemented the trained model in real time applications.

AWARDS

International Top Final Report and National Winner (May 2022) European Space Agency CanSat Competition

National Finalist and Provincial Winner (May 2022)
Ingenious+ Innovation Competition

Best Presenter, Research Paper Finalist (Aug 2021) International Student Conference On Artificial Intelligence BC Student Achievement Scholarship (June 2022)

Provincial Top 5 Finalist (May 2021) BC Youth Innovation Showcase

Greenhouse Growers' Award (Apr 2021) BC/Yukon Science Fair

LEADERSHIP

Oversaw team of 7 executives, planned and organized 5 STEM conferences and hackathons featuring 23 industry professional speakers, sponsored by 9 tech companies, reached 200 students