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EDUCATION

University of Toronto

Psychology, Computer Science
Honours Bachelor of Science
Sept 2019 - Nov 2024

SKILLS

Languages:

Python, Java, Javascript, MaxMSP

Libraries:

Pandas, Numpy, Keras,
TensorFlow, OpenCV, MNE, PyIsI,
Matplotlib

Tools:

Git, Jupyter Notebook, Figma

Soft Skills:

Science Communication, Blogs

COURSEWORK

Data Structures, Algorithms
Object-Oriented Programming
Discrete Mathematics
Calculus I/II
Software Design
Neuroscience, Psychology
Biology and Genetics
Research Data Statistics

ACTIVITIES

Host of the Student Spotlight
Podcast (1000 EP downloads)
Polyglot (french, arabic, russian)
Martial Artist and Squash Player

ARTICLES

Guillain-Barré Syndrome Article
(IYNA Journal submission)

EXPERIENCE

BrainBlots | CryBaby Gallery, Vizmesh NYC

Mar 2022 - Present

Neurotechnology x AI Artist and Co-Founder

- Mint BCI (Brain-Computer Interface) NFT generated art pieces featuring 150+ people thinking about what they love in 3 cities.
- The 1st BCI art piece on a Times Square Billboard in NFT NYC.

NeurotechxUofT

Nov 2021 - Present

Neural Interface Product Designer and EEG Research Engineer

- Designing a competitive end-to-end consumer-focused mind-controlled SSVEP/P300 speller keyboard in Figma.
- Used linear discriminant analysis, fast fourier transforms, ERP epochs, and feature extraction for brain signal processing.

The Fukuda Lab for Cognitive Science

Jan 2021 - Sept 2021

Undergraduate Research Assistant

- Ran memory experiments in stimulus-response-feedback (SRFB) mapping to determine learning attention and focus.

Continuum Robotics Laboratory

Mar 2021 - Aug 2021

Computer Vision Researcher | UofT Robotics Institute

- Implemented motion/shape detection algorithms with ArUco markers for a multi-camera system supporting tendon-driven continuum robots used in neurosurgery with >90% accuracy.

International Youth Neuroscience Association

Nov 2017 - Oct 2020

Chair of the Board of Directors and Board Member

- Led a neuro module for 5,000 members in 100 countries.
- Partnered with other non-profit neuroscience organizations.

Credit Valley Hospital

Sept 2017 - Dec 2019

Cardiopulmonary Sleep Lab | Co-op student

- Monitored patient's brain waves, electrocardiography, and pulse oximetry saturation with sleep technologists overnight.

PROJECTS

Brain AR

Neuroanatomy Augmented Reality Experience

Projects interactive 3D visuals of the Atlas Brain Map slices onto suspended ArUco markers in real-time using OpenCV in Python.