yasmeen hmaidan

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EDUCATION

University of Toronto
Psychology, Computer Science
Honours Bachelor of Science
Sept 2019 - Nov 2023

SKILLS

Languages:
Python, Java, Javascript, MaxMSP
Libraries:
Pandas, Numpy, Keras, TensorFlow, OpenCV, MNE, PyIsl, Matplot
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

MIT Media Lab | Fluid Interfaces Group July 2022 - Present
Brain Computer Interface Student Researcher
- Building a mind-controlled robot with autonomous navigation and personal assistance for patients with ALS in a Python SDK.

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 200+ 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 - Sep 2022
Neural Interface Product Designer and EEG Research Engineer
- Designed 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.

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.