yasmeen hmaidan

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EDUCATION

University of Toronto
Psychology Specialist
(w/ Computer Science Thesis)
Honours Bachelor of Science
Sept 2019 - Jun 2024

SKILLS

Languages:
Python, MatLab, Java, Javascript,
MaxMSP, R, Arduino
Libraries:
Pandas, Numpy, PyTorch,
TensorFlow, OpenCV
Industrial Design:
3D Printing, CAD Modelling,
Microcontroller Electronics, Rapid
Prototyping, Fabrication, Figma
Soft Skills:
Science Communication

COURSEWORK

Neuroscience, Psychology
Data Structures, Algorithms
Object-Oriented Programming
AI, Research Statistics

ACTIVITIES

Host of the Student Spotlight
Podcast (1000 EP downloads)
Polyglot (French, Arabic, Russian)
Recreational Sailing and Squash

AWARDS

Harvard Augmentation Lab
Residency (awarded, declined)
Nucleate DojoHouse Fellowship
Ontario Scholar

EXPERIENCE

BMO Lab for Creative Research in the Arts, Performance, Emerging Technologies, and Artificial Intelligence   Sep 2023 - Present
Experience Designer | Research Student

- Designed an intervention to improve memory with a real-time motion capturing suit and large-language model, GPT-3.5.
- Developed a closed-loop experience to strengthen decision-making with an EEG, accelerometer and StyleGAN2 to simulate facial micro-expressions with social mirroring.

MIT Media Lab | Fluid Interfaces Group   July 2022 - Present
BCI Student Researcher | Collaborator

- Prototyped a Boston Dynamics robot with a Brain Computer Interface (BCI), Ddog, to help people with paralysis communicate via EEG glasses and computer vision models.
- Curated BCI art exhibits at MIT and Boston Cyberarts Gallery.
- Authoring a Proof of Concept (POC) research paper to publish in the IEEE SMC academic journal with Dr. Nataliya Kosmyna.

BrainBlots | CryBaby Gallery, Vizmesh NYC   Mar 2022 - Present
Co-Founder | Neurotechnology x AI Artist

- Recorded 200+ people with an EEG headband to create a hivemind art piece as the world's first brain-controlled art piece on a Times Square Billboard at NFT NYC and MITiHQ.

UofT Psychology and Computer Science   Dec 2020 - Present
Research Assistant (in six lab departments)

- Conducted studies with 200+ participants across personality psychology, vision science, soft robotics and cognitive neuroscience labs with rigorous MATLAB/R analysis pipelines.
- Presented research at UofT's poster conference 3 years in a row.
- Self-taught end-to-end product development with mentorship from Dr. Steve Mann, the Father of Wearable Computing.

Neurotechx   Nov 2021 - Apr 2023
Product Designer | EEG Research Engineer | Consultant

- Prototyped a SSVEP/P300 BCI speller using a conventional brain signal processing and machine learning pipeline.
- Consulted for an advanced neurotechnology firm, NTX Services, with $10M+ valued deep tech startups from Boston.