Brian Pho

Software Engineer & Neuroscientist

EDUCATION

MSc Neuroscience, Western University

Sep 2020 – Aug 2022 · London, ON (Remote)

- Thesis: Using Machine Learning to Predict Intelligence in Children and Adolescents with ADHD.
- Applied PLS and Ridge regression to an fMRI dataset of 380 ADHD youth and 106 healthy participants ages 6-16 to identify network patterns that underlie various aspects of intelligence (E.g. IQ) and its development.
- Achieved high and significant correlations ($r=0.2-0.4$) between actual and predicted intelligence measures.

BSc Software Engineering, University of Calgary

Sep 2015 – Apr 2020 · Calgary, AB

EXPERIENCE

Graduate Student Teaching Assistant, Western University

Sep 2020 – Apr 2022 · London, ON (Remote)

- Taught 240 students for four hours each week on various psychology topics such as learning, memory, intelligence, and consciousness.

Summer Student Researcher, University of Calgary

May 2019 – Aug 2019 · Calgary, AB

- Created a deep convolutional neural network to detect a set of seven basic emotions in speech, achieving an accuracy of 57%.
- Designed a data pipeline from scratch to clean, process, and store audio data that was fed into the network for training, validation, and testing.

Software Developer Intern, Pason

May 2018 – Apr 2019 · Calgary, AB

- Developed industry-leading software to diagnose and fix issues on over a thousand oil and gas drilling rigs.
- Participated in all aspects of the development process such as design, implementation, code review, and testing.
- Communicated potential issues to the team to facilitate discussion and to ensure its visibility.

PROJECTS

Foodee, Final Year Capstone Project

Sep 2019 – Apr 2020 · Calgary, AB

- Collaborated with five software engineers to build a restaurant-analytics platform that aggregates and analyzes data to provide insights.
- Investigated the application of machine learning to optimize restaurant operations by applying techniques and models from data science.

CONTACT

- REDACTED

LINKS

- brianpho.com
- linkedin.com/in/brian-pho
- github.com/Brian-Pho

SKILLS

- Data preprocessing, modeling, and analysis
- Machine learning and deep learning
- Front-end web development
- Self-studying and teaching

Languages
- Python
- JavaScript
- Java
- C#
- Bash

Technologies
- Git/SVN
- Keras/Scikit-learn
- Jupyter Notebook
- React/GatsbyJS