

Ahmed Shaaban

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Skills

Computer Programming	Git, Blackbaud CRM, TFS, VSTS, CI/CD, Visual Studio, Jupyter, Unity, Figma, Adobe Creative Suite, LaTeX, Microsoft Office.
Portfolio	C, C++, C#, JAVA, Python, Javascript, PHP, React, SQL, MATLAB, R, SPSS, HTML/CSS, Racket(Scheme).
Laboratory	Self-programmed website outlining my passions & projects: https://ashaabany.github.io/My-Website/
Language	Study Design, Data Collection, Data Analysis, Tutorial/Document Development, Mentorship.
Other	English, Arabic.
Other	TCPS2 Ethics Certificate, First aid & CPR Certified, Public Speaking, Event planning, Budget Management.

Experience

Cognitive Systems Teaching Assistant (COGS 300)

Vancouver, Canada

DEPARTMENT OF COGNITIVE SYSTEMS, UBC

Jan. 2021 - Apr. 2021

"COGS 300 is a course where students get to explore how cognitive systems are designed and implemented"

- Leading a lab section with 20+ students, instructing them in using Unity, **object oriented programming (C#)**, and machine learning to create virtual robotics and artificially intelligent agents.
- Helped with the development of C# scripts while resolving many bugs present in previous code & writing custom-made solutions.
- Holding my own office hours to exchange ideas with students about the disciplines of computer science, cognitive neuroscience, philosophy, and linguistics.

Student Web Developer

Vancouver, Canada

DEPARTMENT OF MECHANICAL ENGINEERING, UBC

Sept. 2020 - Apr. 2021

"The Mechanical Engineering website is a departmental platform visited by thousands of students & faculty daily"

- Combining WordPress with **HTML, CSS & Javascript** to facilitate regular maintenance and create tailor-made page designs and functionalities on the UBC Mechanical Engineering website.
- Created a **custom solution** for a bug that has been prevalent for years, now allowing back-end users to freely alternate between the text and visual editors on WordPress.
- Utilizing Google Analytics to gain novel insight on user behavioural data and streamlining affiliated websites accordingly
- Using Adobe Creative Suite to create & edit images and videos posted on the website.

Research Assistant

Vancouver, Canada

COGNITIVE NEUROSCIENCE OF SCHIZOPHRENIA LAB (CNoS), BC CHILDREN'S HOSPITAL

Mar. 2020 - Mar. 2021

"The CNoS Lab specializes in the exploration of fMRI data to find trends in the functional connectivity of the brain in both healthy and schizophrenic patients"

- Conducting Constrained Principle Component Analysis (CPCA) to derive functional brain images from BOLD signal time series.
- Using MATLAB & high-level brain imaging software (e.g MRICron) to classify functional brain networks in patients.
- Utilizing past fMRI data to generate statistically significant Canonical Correlations (CCA) between brain networks in both healthy and schizophrenia patients using IBM SPSS.
- Wrote a **5000 word research paper** on Canonical Correlations in Brain Networks that is currently being edited by an undergraduate journal for publication.

Camps Instructor

Vancouver, Canada

GEERING UP, UBC

June. 2019 - Dec. 2019

"Geering Up is an institution committed to educating the youth of today in disciplines of Science, Mathematics, Engineering, and Technology, in a fun and approachable way"

- In charge of creating, mastering, and teaching a large variety of STEM concepts in a fun & approachable way to children aged between 6-14
- Supervised interning junior instructors while being a role model to them.
- Had the privilege to be competitively selected for outreach camps, allowing me to travel to **Cranbrook, BC** for one week to teach children in the **indigenous community known as ?Aq'am.**

Education

The University of British Columbia

Vancouver, Canada

B.Sc. COGNITIVE SYSTEMS: COGNITION & BRAIN, WITH DISTINCTION

Sep. 2017 - Apr. 2021

- Coursework included software engineering, machine learning, UX design, neuroscience, symbolic philosophy, and academic writing.
- Awards & Honours:** - Dean's Honour list: 80% or higher in any winter session with 27 or more credits (9 courses) -Graduating with Academic Distinction: 85% or higher in top 30 credits (10 courses) of degree-related 300/400 level courses.
- Overall **GPA: 3.6**, Top 60 credits **GPA: 4.0**, Supervised by Todd Woodward and Rebecca Todd.