Ahmed **Shaaban**

Full Stack Web Developer

ashaabany.github.io/My-Website/ | ahmed.m.shaaban97@gmail.com | ahmed-shaaban-a1390b1b2

Skills

Software	Visual Studio Code, Git, VSTS, Blackbaud CRM, Jupyter, Unity, Figma, Adobe Creative Suite, LaTex, Microsoft Office
Programming	C#, C++, .Net, Java, Python, Javascript, PHP, React, SQL, Matlab, R, SPSS, HTML/CSS, Racket
Research	Lab Research, Data Collection, Data Analysis, Tutorial/Document Development, Mentorship
Functional	TCPS2 Ethics Certificate, First Aid & CPR Certified, Leadership, Public Speaking, Critical Thinking, Collaboration

Experience

Cognitive Systems Teaching Assistant
Vancouver, Canada

Department of Cognitive Systems, UBC *Jan. 2021 - Apr. 2021 | 4 mo*

- Instructed a lab section in COGS 300 with 25 students in the creation of virtual robotics and artificially intelligent agents using Unity, C#, and machine learning algorithms
- Developed custom-made solutions using C# in order to resolve bugs and increase efficiency in legacy code
- Held weekly office hours in which I exchanged ideas with students about the disciplines of computer science, cognitive neuroscience, philosophy, and linguistics

Web Developer
Vancouver, Canada

Department of Mechanical Engineering, UBC *Sept. 2020 - Apr. 2021 | 8 mo*

- Facilitated regular maintenance and created tailor-made functionalities on the UBC Mechanical Engineering website by Combining WordPress with HTML, CSS and Javascript
- Created a custom solution for 5 year old bug, now allowing website visitors to browse more effectively
- Streamlined affiliated websites by utilizing Google Analytics to incorporate novel insight on user behavioral data
- Created and edited images, logos, and videos posted on the website using Adobe Creative Suite

Research Assistant
Vancouver, Canada

Cognitive Neuroscience of Schizophrenia Lab (CNoS), BC Children's Hospital *Mar. 2020 - Apr. 2021 | 1 yr 1 mo*

- Derived functional brain images from Blood-Oxygen-Level-Dependent (BOLD) signal time series by conducting Constrained Principle Component Analyses (CPCA)
- Classified functional brain networks in over 200 patients using MATLAB and high-level brain imaging software
- Generated statistically significant Canonical Correlations (CCA) between brain networks in over 100 healthy and schizophrenic patients by conducting data analysis on past fMRI data using IBM SPSS
- Mentored junior lab members in data analysis and lab responsibilities through cross-functional team leadership
- Wrote a 5000 word research paper on Canonical Correlations in Brain Networks that is currently in review for publication

Research Intern
Vancouver, Canada

Motivated Cognition Lab, UBC *Jan. 2020 - May. 2020 | 5 mo*

- Recruited over 50 participants for experiments related to human emotion and cognition, staying consistent in my data collection and professionalism with subjects
- Reviewed experimental results, reorganized code scripts, and conducted data analysis using Matlab and Python

Camps Counsellor
Vancouver, Canada

Geering Up, UBC *June. 2019 - Dec. 2019 | 7 mo*

- Created, mastered, and taught a large variety of STEM concepts in a fun and approachable way to children aged between 6-14, while leading and working with a team of Instructors
- Supervised interning junior instructors by delegating tasks, setting expectations, and receiving assistance
- Selected for outreach camps out of 100 employees, allowing me to travel to Cranbrook, BC 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: web development, machine learning, UX design, neuroscience, symbolic philosophy, communications
- Awards & Honours: - Dean's Honour list: **80% +** average in one or more winter session - Academic Distinction: **85% +** average in degree-related 300/400 level courses
- Top 60 credits **GPA: 4.0**, Supervised by Todd Woodward and Rebecca Todd