KASHAF MASOOD

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Education

Ryerson University | Toronto, ON — *Expected Graduation: 06/2023*
Biomedical Engineering (B.Eng.), Psychology (Minor) — ***GPA:*** *3.77/4.33 (Dean's List)*

Technical Skills: C, C++, Python, Java, MATLAB, TensorFlow, Keras, scikit-learn, Git, JavaScript, HTML5, CSS3, React.js

Experience

Ryerson University, Department of Electrical, Computer, and Biomedical Engineering | Toronto, ON
Data Science Research Intern
05/2021 – Current

- Summarized research papers related to machine learning autism diagnosis systems and studied various architectures of neural networks
- Manipulated existing diagnosis algorithm to add GCNN-LSTM integration using *TensorFlow* and *Keras* and integrated comparison models including KNNs, XGBoost, Random Forest, Decision Trees, and SVM using *scikit-learn*
- Utilized various metrics including accuracy, precision, recall, and AUC using *scikit-learn* to evaluate the effectiveness of models

Ryerson University, Synlab | Toronto, ON
UI Research Intern
09/2020 – *04/2021*

- Developed web application for National Science Foundation funded project that creates immersive technologies and software for collaborative learning
- Led effort of designing user interface and wireframes of web application using *Figma* and *Material UI* and created a fluid front-end framework for the application using *React.js*
- Troubleshooted developmental issues with re-design and debugging techniques

Ryerson University, Synlab | Toronto, ON
Research Assistant Intern
05/2020 – 09/2020

- Summarized research progress and provided critical feedback on system design and software components of tangible-interaction system developed
- Updated and debugged *JavaScript, HTML5*, and *CSS3* files of system to allow for smooth user-interaction while using application
- Contributed to a research publication related to a user study that focused on the usefulness of the system for collaborative and individual analysis. Written in *LaTeX* using *Overleaf*

IEEE Biomedical Chapter, Ryerson University | Toronto, ON
Chair
05/2020 – 04/2021

- Maximized success of 4-6 events by delegating tasks and motivating 10 team members when planning events for the engineering student community
- Efficiently managed events at various stages including planning and development to timely completion of event tasks
- Improved future events based on in-depth reviews of the successes and failures of previously completed events and workshops

Ryerson University, Faculty of Engineering and Architectural Science | Toronto, ON
Project Manager
09/2020 – 12/2020

- Supported teaching assistants in tutorials to create a collaborative, engaging, and well-structured learning environment for 70-90 students
- Led three teams consisting of 5-10 members by providing them guidance on projects, responding to questions, and strategizing project outcomes

Projects

Ryerson University
Signals and Systems
Sept 2020 – Dec 2020

- Performed signal analysis through *MATLAB* programming to understand various continuous-time signal properties including convolutions, Fourier analysis, and impulse response.

Ryerson University
Introduction to Software
Sept 2020 – Dec 2020

- Developed various software programs that dealt with different developmental processes including object-oriented paradigms in *C++*. Projects focused on modular design, queues, classes, and unified modeling language (*UML*).

Awards and Certifications

- NSERC Undergraduate Student Research Award (USRA) — Government of Canada | *April 2021*
- IBM Data Science Certificate Courses: *Tools for Data Science* and *Data Science Methodology* — Coursera | *August 2021*