Aymen Rumi

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Portfolio: https://aymenrumi.github.io   GitHub: https://github.com/aymenrumi

Objective & Summary

Computer Science and Mathematics graduate from McGill University looking for employment or research opportunity to help apply my knowledge/skillset to real world problems and advance my career.

Education

McGill University, Faculty of Computer Science   **Montreal, Canada** | 2015-2020
Bachelor of Science: Major - Computer Science, Minor – Mathematics

Westview High School   **San Diego, California, United States**| 2011-2015
High School Diploma, Award: President's Education Award –Academic Excellence

Employment History

CAE Inc. – Software Engineering Internship   **Montreal, Canada** | Summer 2018, May-August
4-month Internship: Was given the task of implementing Software Automated Testing using 3rd party applications i.e. Ranorex, & later helped incorporate same testing features to CAE's Simfinity framework by adding Self Click functionality using C++ & C#

Private Tutor – Macroeconomics CEGEP Tutor   **Montreal, Canada** | January-June, 2020
Helped student master Macroeconomics concepts by provided self-made notes additional to coursework, mostly tying rigorous theory to explainable real-world economic events. Proof-read course assignments & take-home final. Student received an A

Highlighted Projects- *please visit Portfolio for more*

Personal Portfolio Website
Programmed a static website from scratch using HTML, CSS, JavaScript. Used as a portfolio, & personal sharing platform. I share my social media, written articles, projects, programs, data science reports, programmed REST APIs & much more.

Morris Water Maze Task
Using Python on Jupyter Notebook, I replicated results from a computational neuroscience academic paper studying neural mechanisms of spatial learning and memory. I simulated a rat's spatial navigation system and memory-based coordinate system via actor-critic network using temporal difference learning; a model-free reinforcement learning method.

House Prices: Advanced Regression Techniques
Data science project; Data cleaning (imputations for missing values), data visualization, data preprocessing done using R. Prediction model (multiple linear regression, random forest regressor, & deep neural network) training & hyperparameter-tuning done using Python (Scikit-Learn, TensorFlow). Model performances were compared using k-fold cross validation.

Relevant Skill & Coursework

Skills
Programming
        Proficient: Python, R, MATLAB, Java, C++, C, SQL, Linux Commands | *Familiar With:* HTML, CSS, JavaScript, C#

Libraries/Tools: Scikit-Learn, Keras, TensorFlow, Flask, Git, Docker, LaTeX, RMarkdown

Languages: English, French, Bengali

Relevant Courses
Computer Science: Algorithms & Data Structures, Software Design, Operating Systems, Database Systems,
                Artificial Intelligence, Computational Biology Methods, Robotics & Intelligent Systems,
                Applied Machine Learning, Brain-Inspired Artificial Intelligence
Math/Statistics: Probability, Statistics, Ordinary Differential Equations, Stochastic Processes, Numerical Computing,
                Statistical Computing, Honors Regression and Analysis of Variance, Time Series Analysis
Others: Microeconomics, Macroeconomics, Introduction to Psychology

Legal Status

Dual Citizen (United States/Canada)

Leadership & Extracurricular

Bangladeshi Student Association - Co-President (2019-18) & Representative (2018-17) **McGill University** | 2017-2019

Led a student organization to promote Bangladeshi Culture at McGill University. Managed all members of executive team, was in charge of appointing roles; handling coordination of events, fundraisers, and collaborations with other South Asian organizations; facilitated a means for open, social, and cultural network among student body.

Intramural Basketball – Team Captain (Fall 2019) **McGill University** | 2018-2020

Played 4 seasons (semesters) of Intramural Basketball at McGill University. Helped contribute to team championship in Winter 2019 & had the role of Team Captain in Fall 2020. Learned to sacrifice and manage egos for greater good of a team as well understanding importance of defining team hierarchy & playing designated role within larger group context.