Solaiman Jawad

MSJawad.github.io — msjawad@uwaterloo.ca — in/solaiman-jawad — github.com/MSJawad

Skills

· Skilled in Javascript, C++, C, Python, Scheme, R, SQL, Django, Bash, Git, Keras and Tensorflow
· Interested in backend development, web development, deep learning, infrastructure, systems design

Work Experience

The Co-Operators
Innovation Developer (Web Development)

Jan – Apr '19
Waterloo, ON

· Built a cross-platform chatbot using node.js that collects data for a quote generation program by parsing documents and sorting questions by relevance, decreasing quote generation time for advisers by 81%
· Implemented functionality to help advisers hire and get information on potential employees
· Authored search by relevance functionality in the hiring program, allowing it to deliver articles and image searches to users, and enabling quick lookup of queries or forms in the program's question tree
· Created a rest API to help implement bug trackers for several projects and connect them to Jira

BRAC University
Analyst Intern

Jun – Jul '16
Dhaka, BD

· Updated decision tree classifiers for a prediction model of academic success of currently enrolled students
· Evaluated results of analysis based on the response of quizzes, questionnaires, and student profiles

Projects

Axys
git.io/vpGt1

· Developed a web platform to help developers connect with designers and collaborate on projects
· Won "Best Use of Amazon Web Services" award at Starterhacks 2018

restTorrent
git.io/fjsVG

· Built a rest API that uses bencode URLs to track peers according to seed ratio and download files
· Used UDP protocol instead of traditional TCP to enable faster speeds with stable connections

bigRSA
git.io/vNO7D

· Designed a program that uses the RSA cryptosystem to generate keys to encrypt and decrypt messages
· Optimised the program to quickly generate and use 600 bit numbers for encryption

ANN-Bank
git.io/fAzBD

· Constructed a neural network that predicts the likelihood of retention of customers in a particular bank
· Used concepts like backpropogation and reinforcement learning to achieve a 86% testing set accuracy

Other notable projects: **fzySpellcheck**, **Biquadris**, **CNNandDogs** and more on my **Github**

Education

University of Waterloo
Candidate for Bachelors of Mathematics, Honours

Sept '17 – Sept '22 *(expected)*

· Joint Major in Honours Computational Mathematics and Combinatorics and Optimization
· Relevant Courses: Object Oriented Programming, Functional Programming, Algorithm Design and Data Abstraction, Data Types and Structures, Logic and Computation
· Recipient of the President's Scholarship (95th percentile admission average)