

SOLAIMAN JAWAD

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

SKILLS

Experienced with C, C++, Python, Javascript, Node, Ionic, Scheme, SQL, Django, Git, Keras, Tensorflow
Interested in Back-end, Web Development, Deep Learning, Infrastructure, Systems Design, Robotics

WORK EXPERIENCE

The Co-Operators

Jan – Apr '19

Innovation Developer (Web Development)

Waterloo, ON

- Built a quote generating chatbot using NodeJS that enacts smart dialogue and collects data by parsing documents, reducing quote generation time by 81% by using efficient, concurrent parsing algorithms
- Worked cross-team on an assessment tool used to identify businesses and generate risk appetite scores
- Authored search by relevance functionality in a 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
- Constructed a rest API to help implement bug trackers for several projects and connect them to Jira

BRAC University

Jun – Jul '16

Analyst Intern

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 backpropagation and reinforcement learning to achieve a 86% testing set accuracy

Also check out **fzyCheck**(Edit Distance Spellchecker), **Biquadris**(Tetris in C++) and more on **Github**

EDUCATION

University of Waterloo

Sept '17 – Sept '22 (*expected*)

Candidate for Bachelors of Mathematics, Honours

- Joint Major in 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)