

MOHAMMAD SOLAIMAN JAWAD

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

SKILLS

- Skilled in Javascript, C++, C, Scheme, Python, R, SQL, Go, Django, Bash, Git, Keras and Tensorflow
- Interested in web development, infrastructure, machine learning and system performance enhancement

WORK EXPERIENCE

The Co-Operators

Jan – Apr '19

Innovation Developer (Web Development)

Waterloo, ON

- Built a cross platform chatbot using nodeJS that collected data for a quote generation process.
- Chatbot successfully increased average quote generation efficiency for advisors by ~450%.
- Created another intelligent, cross-platform chatbot to help company advisers hire new employees.
- The chatbot was developed with NodeJS(backend) and React.js(front-end) and was able to sort questions by relevance and deliver articles, text and smart image searches.
- Created HTTP pipelines to implement bug trackers for several projects and connect them to Jira.

BRAC University

Jun – Jul '16

Analyst Intern

Dhaka, BD

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

PROJECTS

Axys

git.io/vpGtI

- A web platform built as a way to help developers connect with designers to collaborate on projects.
- Won "best use of Amazon Web Services" award at Starterhacks 2018.

restTorrent

git.io/fjsVG

- A rest API that uses bencode URLs to help download files, similar to how torrent files are downloaded.
- Uses UDP instead of traditional TCP to enable faster speeds with stable connections.

bigRSA

git.io/vNO7D

- Designed an optimised program that implements the RSA cryptosystem to encrypt and decrypt messages.

ANN-Bank

git.io/fAzBD

- Implemented a neural network that was able to predict, with a 86% testing set accuracy, which customers would leave a particular bank, given a dataset of their recent transaction history.

Other notable projects: fzySpellcheck, Biquadris, CNNandDogs, sentimentAnalysis, neuralNet

EDUCATION

University of Waterloo

Sept '17 – Sept '22 (*expected*)

Bachelors of Mathematics, Honours

- Joint Major in Computational Mathematics and Statistics
- 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)

Currently doing "Computer Science: Algorithms, Theory, and Machines", a Princeton open source course.