

# MOHAMMAD SOLAIMAN JAWAD

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

## SKILLS

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

## WORK EXPERIENCE

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### The Co-Operators

Jan – Apr '19

*Innovation Developer (Web Development)*

*Waterloo, ON*

- Built a cross-platform chatbot using node.js that collects data for an insurance quote generation program
- Designed the program to decrease average quote generation time for advisors using the chatbot by 81%
- Created another cross-platform chatbot to help advisers hire and get information on potential employees
- Enabled the chatbot to sort questions in a complex question tree by relevance, search for particular questions and deliver articles, text and smart image searches whenever prompted
- 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

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### Axys

*git.io/vpGt1*

- Developed a web platform 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*

- 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 can 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

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### 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 (95<sup>th</sup> percentile admission average)