SOLAIMAN JAWAD

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

SKILLS

· Proficient in Python, C, C++, Go, JavaScript, Lisp, Terraform, SQL
· Interested in machine learning, backend, web development, distributed systems and cloud infrastructure

WORK EXPERIENCE

Electro Source Inc   *Jun – Aug '20*
Software Developer (Backend)   Remote

  Worked on the development of a multi-platform application to track SR&ED tax contributions
· Implemented workflows to connect with multiple ALM platforms to create, update and track issues
· Added support for email communication with application, enabling primary consumer interface
· Designed Dialogflow agents to allow for email extraction, improving issue tracking content

Intelerad Medical Systems   *Sept – Dec '19*
Software Developer (Machine Learning/Infrastructure)   Toronto, ON

  Worked on image recognition initiatives for Intelerad's image viewer suite and cloud deployment platform
· Automated the chest X-ray hanging protocol by developing neural networks to classify viewing angles
· Improved data collection throughput by 45% by utilizing better parsing algorithms in analysis tools
· Implemented a variation of YoloV3 for object detection of vertebrae in the spinal column
· Built scalable, fault-tolerant training and inference pipelines for multiple projects in AWS

The Co-operators   *Jan – Apr '19*
Innovation Developer (Web Development)   Kitchener, ON

  Led the development of chatbots, asynchronous document parsers and web APIs
· Built a quote generating chatbot that enacts dialogue and concurrently parses data from documents
· Integrated search and continue functionalities in the documentation and question tree of a hiring program
· Developed a REST API to help implement bug trackers for several projects and connected them to Jira

BRAC University   *Jun – Jul '16*
Data Analyst Intern   Dhaka, BD
· Updated decision tree classifiers for a prediction model of academic success of currently enrolled students

PROJECTS

mapreduce   *git.io/JU4i0k*
· Developing a program that emulates MapReduce, running plugin-based functions in parallel
· Uses the RPC protocol for communication between master and it's workers

pathfinder   *git.io/JvUHk*
· Built a program that generates mazes and displays the performance of different pathfinding algorithmns

bigRSA   *git.io/vNO7D*
· Designed a program that uses the RSA cryptosystem to generate keys to encrypt and decrypt messages

Other notable projects: **restTorrent**, **fzySearch**, **ANeuralNet**, **go-workerpool** and more on **Github**

EDUCATION

University of Waterloo   Sept '17 – Sept '22 *(expected)*
Bachelors of Mathematics, Honours