

SOLAIMAN JAWAD

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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 (Product Development)

Remote

Worked on the development of a multi-platform application to track SR&ED tax contributions

- a
- b
- c

Intelrad Medical Systems

Sept – Dec '19

Software Developer (Machine Learning/Infrastructure)

Toronto, ON

Worked on image recognition initiatives for Intelrad'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/JvUHk

- 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 algorithms

GoTorrent

git.io/vNO7D

- Designed a program that uses the RSA cryptosystem to generate keys to encrypt and decrypt messages

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

EDUCATION

University of Waterloo

Sept '17 – Sept '22 (*expected*)

Bachelors of Mathematics, Honours (Intended Major: Computational Mathematics)