

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 infrastructure

WORK EXPERIENCE

Electro Source Inc

Jun – Aug '20

Software Developer (Backend)

Toronto, ON (Remote)

- Worked on the development of a multi-platform application to track R&D tax contributions
- Implemented workflows to connect with project management platforms to create, update and track issues
- Added support for email communication, creating the core interface to interact with the application
- Leveraged Google's NLP platform to allow for smarter 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 the image viewer suite of applications
- Automated the chest X-ray hanging protocol by developing neural networks to classify viewing angles
- Improved data collection throughput by 45% by using 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 using AWS

The Co-operators

Jan – Apr '19

Innovation Developer (Web Development)

Kitchener, ON

- Designed a program that fills out insurance forms and concurrently parses documents to generate quotes
- Implemented cached search suggestions and savepoints to save in-progress state
- Built a standardized interface to implement bug tracking functionality and subsequent reporting in Jira

BRAC University

Jun – Jul '16

Data Analyst Intern (Student Admissions)

Dhaka, BD

- Updated decision tree classifiers for a prediction model of academic success of currently enrolled students

PROJECTS

mapreduce

git.io/JU4i0k

- Developed a MapReduce program that runs plugin-based functions in parallel across multiple files
- Uses a master program to distribute work, running concurrent workers that communicate via RPCs

pathfinder

git.io/JvUHK

- Built a program that generates mazes and displays the performance of different pathfinding algorithms

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**, **Biquadris**

EDUCATION

University of Waterloo

Sept '17 – Sept '22 (*expected*)

Bachelors of Mathematics, Honours