ARUN RAWLANI

(1) 438-995-7080 | arun.rawlani@mail.mcgill.ca
GitHub: github.com/arunrawlani | LinkedIn: linkedin.com/in/arunrawlani/

EDUCATION

McGill University **Montreal, Canada**
Bachelor of Science in Computer Science June 2017

- **Honors:** Received **Hugh M. Brock Scholarship** Award | **Major CGPA:** 3.62/4.00
- **Relevant Coursework:** Applied Machine Learning, Artificial Intelligence, Algorithm Design, Operating Systems, Database Systems, Numerical Computing, Functional Programming, Computer Architecture, Software Engineering Methodologies

WORK EXPERIENCE

Ericsson **Montreal, Canada**
Software Developer Intern, Authentication and Digital ID May 2016-August 2016

- Worked on the Gateway solution, which uses **authentication mechanisms to secure IP Systems and IoT devices**.
- Developed smart locks, using **Java**, improving **authentication time by 140%** and was widely adopted by the company.

Xypper Technologies **Montreal, Canada**
Lead Developer Feb 2016-Apr 2017

- Leading development of iOS app improving on-demand freight transportation by connecting shippers with carrier trucks.
- The application is currently being **used by over 800 truckers** in North America and has received encouraging feedback.

McGill Robotics Society **Montreal, Canada**
Director, Autonomous Underwater Vehicle (AUV) Software Team Sept 2014-May 2015

- Implemented a program, using **Java**, for collecting sonar and visual data from sensors on the AUV machine.
- The subsystem utilized the position and velocity, along with sensor data, to decide on an effective sequence of actions.

PERSONAL PROJECTS

Detecting Speech Impairment in Children **Montreal, Canada**
Developer & Designer, AI for Social Good Hackathon| github.com/arunrawlani/LetsTalk June 2017

- Created an app that capitalized on machine learning techniques to detect speech impairment in children
- Used the **Watson API** to detect pauses & trained a **Random Forest classifier** for detection with an accuracy of 77.32%.

Image Classifier for ImageNet Dataset **Montreal, Canada**
Developer, McGill University| github.com/arunrawlani/Image_Classification May 2017

- Implemented Logistic Regression and Convolutional Neural Networks to classify images from 40 different categories.
- Used ensemble methods along with transferring learning for Inception v3 to receive an accuracy of 88.01% on the test set.

IRIS News Aggregator iOS Application **Montreal Canada**
iOS Developer and Designer | github.com/arunrawlani/Iris_Project Sept 2016

- Created an article aggregator that scraped news websites and generated summaries using Stanford's **NLTK module**.
- **Won Apple's WWDC Scholarship** for this project and was invited to attend the conference in San Francisco.

Plane Reservation System **Montreal, Canada**
Java Developer, McGill University| github.com/arunrawlani/AirPlaneReservationSystem Oct 2015

- Created an airplane seat reservation system in **Java** that allows multiple users to do reservations at once.
- The program uses multi-threading to allow multiple user interactions and utilizes locks to prevent conflicts.

Google Search Emulation Program **Montreal, Canada**
Developer, McGill University| https://github.com/arunrawlani/Mini-Google-SearchEngine Nov 2014

- Used **Java** to create directed graphs through the adjacency-listed implementation to **traverse webpages**
- Emulated **Google's page rank system** by analyzing the out-degree for website traversed to produce optimized results

ACTIVITIES

- Won **Apple's Scholarship** given out to 150 outstanding iOS developers from a developer community of 200,000 people.
- Served as Vice President of Hack McGill Organization.
- Serving as Co-President of McGill Entrepreneurs Society. Previously held the position of External Relations Manager.

SKILLS

Programming Languages: Competent in **Java** & **Swift**. Experience with **Python, Bash, Objective C, MATLAB and F#**
Technical Skills: Experience with **UNIX (SUSE Linux)**, **Git**, **IBM DB2, XCode, JSON, Ansible, SQL, iOS & Android.**