ARUN RAWLANI

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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

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   February 2016-Present
- 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.

PROJECTS

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

Classifier for Participation in Miami Marathon   **Montreal, Canada**
Developer, McGill University| github.com/arunrawlani/Predictor-for-Miami-Marathon-Machine-Learning   March 2017
- Created a classifier, using Python , to predict the participation of athletes in the 2017 Miami Marathon.
- Used logistic regression, with gradient descent, to train the classifier and received an **accuracy of 87% on test data**

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

Artificial Intelligent Agent for HUS   **Montreal, Canada**
Java Developer, McGill University | github.com/arunrawlani/Artificially-Intelligent-HUS-player   March 2016
- Created an AI player for Mancala game, in **Java**, which uses **minimax algorithm** with alpha-beta pruning.
- Agent was placed **35th out of 180** students in tournament and had an overall **winning percentage of over 76%**.

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

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.
- Served as the Chair of McGill Model United Nations Conference 2016.

SKILLS

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