

# AANIKA

# RAHMAN

## EDUCATION

### MCGILL UNIVERSITY

2015-2019 • Montreal, Quebec

**B.Sc. Computer Science & Mathematics (Joint Major)**

### BERMUDA HIGH SCHOOL

2008-2015 • Pembroke, Bermuda

**International Baccalaureate**

– MacKenzie Gibbons Riihiluoma Cup (Academics), Susan Palmer Scholarship, IB Merit Scholarship

## COURSEWORK

### Computer Science

Artificial Intelligence, Machine Learning, Database Systems

### Mathematics

(Matrix) Numerical Analysis, Regression and ANOVA, Stochastic Processes, Graph Theory

## AWARDS

### BELCO Mathematics Award

#### Bermuda Electric Light Company

– Given to select few graduating high school students nationwide in 2015

### Outstanding Teens Nomination for Community Service

#### Bermuda Teen Services

– Nominated for the community service award nationwide in 2015

### Bermuda Mathematics Olympiad

#### Center of Talented Youth

– 4-time 1st prize winner between 2009-2014 & overall winner in 2009

## SKILLS

### Programming Languages

Python, R, MATLAB, OCaml, Java, C, Bash, MIPS, HTML/CSS, JavaScript (learning)

### Frameworks & Technology

Git, OpenCV, Tensorflow, Scikit-learn, Keras, Amazon Web Services, Android Studio

### Graphic Design Tools

InDesign, Illustrator, Photoshop

### Speaking Languages

English, Bengali, French (intermediate)

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[ohaanika.com](https://ohaanika.com)

## EXPERIENCE

### AI for Social Good Lab (OSMO)

2018/05-2018/07 • Program Coordinator

– Handled many logistical elements in the running of the AI Lab  
– Maintained relationships between sponsors, speakers, mentors and participants  
– Mentored during the project portion of the lab

### AI for Social Good Lab (McGill Innovation)

2017/06-2017/07 • Lab Participant

## PROJECTS

2018/12 • Aspect Based Sentiment Analysis (NLP)

– Recreated the baseline neural networks reported in our paper of interest, explored classical ML algorithms, and tuned hyperparameters for all models to ultimately outperform mentioned baselines on the SemEval 2016 dataset

2018/11 • Doodle Classification (Computer Vision)

– Working with the Google Quick Draw dataset in a Kaggle competition to classify hand-drawn doodles, the following algorithms were explored: Logistic Regression, SVM, feed-forward neural network (from scratch), CNN

2018/03 • Tablut

– Explored two game playing strategies (alpha-beta pruning and Monte-Carlo search tree) for Tablut, a two-player perfect deterministic game, and ranked top 8% in the class tournament

2017/06 • American Sign Language Translator (Computer Vision)

### McGill Innovation's AI for Social Good Lab

– Translated hand signs to text by transfer learning: extracted features from pre-trained model, trained dataset (i.e. alphabet, numbers) through logistic regression and tested at certain ratios; attempted to run a CNN but required GPU

2017/02 • Trivia Game

### HACKATOWN

– Used Android Studio and integrated Nuance Mix API into a game which outputs an audio file, requires speech input from the player and checks to see if this matches the keyword associated with the audio file through a hash table

## INVOLVEMENT

### Canadian University Software Engineering Conference

2019/01-present • Co-Chair

– Currently wrapping up post-conference responsibilities for CUSEC 2019 and planning out CUSEC 2020

2018/04-2019/01 • Logistics Team

– Managed conference logistics and materials prior to the event (e.g. venue, bookings, orders, schedule)

2017/10-2018/01 • Director of Design

– Designed promotional content, booklets, posters, stickers, shirts and other items using graphic design tools

### McGill Artificial Intelligence Society

2018/04-present • Vice President Communications

– Responsible for promotion, sending emails, and maintaining social media channels  
– Design promotional content, booklets, and other items with graphic design tools  
– Work with the team to organise events (e.g. ImplementAI hackathon)  
– Contribute to MAIS 202, a new bootcamp-style course, as a TA and grader

### Students Offering Support (SOS)

2017/01-2017/04 • COMP 250 Tutor

– Held review sessions for an introductory course to algorithms and data structures