






# Ahmed Fuad Ali

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## Experience

### Software Engineering Intern - Wealthsimple, Toronto

Sept - Dec 2019

- Working on the full-stack using React, Ruby on Rails, and Node.JS

### Junior Associate, Software Engineering - Publicis Sapient, Toronto, ON

June - Aug 2019

- Coded responsive, location based front-end component seen by **1.5 million** users daily
- Analyzed the performance of \$500 million+ eCommerce site to identify bottlenecks, resulting in faster load times
- Developed a contextualized chatbot by employing the **KNN algorithm** on click-stream data from Jeep.com

### Web Developer - Chow-Fraser Lab, McMaster University

Sept - Dec 2018

- Developed a site to **aggregate** and **analyze** data from conservation regions across Canada to enable users to self-report chlorophyll levels in natural water reserves
- Visualized data using **D3.js** to inform research into water quality, resulting in identification of key conservation zones

### Software Engineer Intern - Pickup [www.pick-up.ca](http://www.pick-up.ca)

Apr - Aug 2018

- Engineered a progressive web app using **React** and **Firebase**, redesigned frontend to decrease bounce rate by **20%**
- Utilized the **Gale-Shapley** algorithm to match riders with available drivers, deployed using Firebase Cloud Functions

### Multi-Organ Transplant Researcher - Toronto General Hospital

May - Aug 2017

- Developed a **machine learning algorithm** in Python that uses **support vector machines** to classify liver disease, resulting in early diagnosis without biopsy or invasive procedures, using a dataset of eleven **clinical features**
- Coded a script to normalize 10,000+ patients' data in order to train, validate and evaluate machine learning models
- First author** on Meta-Analysis published in the Canadian Liver Journal [bit.ly/nashgen](http://bit.ly/nashgen)

## Education

### B.Eng, Electrical and Biomedical Engineering Co-op (Level 3) - McMaster University

Expected Apr 2021

- Deans Honor List** (2016-2018), Honors Entrance Scholarship (94%), **3.4/4.0** GPA
- Teaching Assistant for Engineering 1P03, evaluating student projects and applying design criteria
- Relevant courses: **Data Structures and Algorithms**, Discrete Math, Statistics, Vector Calculus, Molecular Biology

## Skills

**Languages:** Python, Java, C, C++, JavaScript, Swift, MATLAB, Assembly, HTML/CSS, SQL

**Tools and Frameworks:** Pandas, Bootstrap, TensorFlow, React, Firebase, Node.JS, Android Studio, Git/Version Control

## Projects

### Unmask - Personal Project

Aug 2019

- Developing a computer vision application using **Ruby on Rails** to analyze media sentiment based on pictures of faces
- Trained the convolutional neural network model using **OpenCV** on an EC2 instance and deployed on the cloud

### Strive - MedHacks [bit.ly/striveJHU](http://bit.ly/striveJHU)

Sept 2018

- 2nd of 200+** teams at MedHacks, Johns Hopkins University
- Utilized computer vision (**Google Vision API**) to extract nutritional info from user uploaded pictures of food, allowing users to track their calories in a virtual food diary

### WatchSafe - Hack the Valley [bit.ly/watchsf](http://bit.ly/watchsf)

Feb 2018

- Created a web app that censors inappropriate movie scenes using **SightEngine** at the University of Toronto
- Mapped API data to allow customized censoring across four different categories: alcohol, nudity, drugs and violence