Ahmed Fuad Ali

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Experience

Software Development Engineer Intern - Publicis Sapient, Toronto, ON — June 2019 - 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. Pitched the application to senior management

Web Developer - Chow-Fraser Lab, McMaster University — Sept 2018 - Jan 2019

- 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 — 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**

Education

B.Eng, Electrical and Biomedical Engineering Co-op (Level 3) - McMaster University — Expected Apr 2020

- **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

Strive - MedHacks 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 — 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

Extracurriculars

Welcome Week Planning Committee - McMaster Engineering Society bit.ly/wwcoding — Jan - Sept 2018

- Planned 15 events for **1200+** incoming engineering students, taking into consideration diversity and inclusion
- Organized a coding challenge sponsored by AMD for 130 students, including writing coding questions & solutions