Ahmed Fuad Ali

www.fuadali.com 🌐
alia78@mcmaster.ca ✉
mobile: 647-631-1198 📞
github.com/tofuadmiral
linkedin.com/in/ahmedfuadali

Experience

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 - Pickup www.pick-up.ca   Apr - Aug 2018
- Ride-share startup incubated at the Forge that connects students commuting to school with drivers
- 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
- 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%), 3.5/4.0 GPA
- Teaching Assistant for Engineering 1P03, evaluating student projects and applying design criteria

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

Toshi - YHack, Yale University bit.ly/toshapp   Dec 2018
- Developed an **NLP** chatbot that makes investment info more accessible for the everyday person
- Utilized Goldman Sachs API and open source info to provide real time stock info and **construct a risk model**

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 video content to customize censoring allowing for user specifications on "safe" content

Woke - Personal Project   Aug 2018
- A social alarm clock for iOS that increases accountability by allowing you to connect with friends waking up early
- Implementing a chat system following MVC principles

Strive - MedHacks bit.ly/striveJHU   Sept 2018
- **2nd of 200+** teams at Johns Hopkins University
- Built a web app in React to track user nutrition
- Utilized computer vision (**Google Vision API**) to extract nutritional info from user uploaded pictures of food

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

Youth Rugby Development Intern - Toronto Inner-City Rugby Foundation bit.ly/rug18   Apr 2016 - Aug 2017
- Part of a team of 45 interns bringing the sport of rugby to **20,000+** disadvantaged youth in inner-city Toronto