






Ahmed Fuad Ali

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Experience

Web Developer - Chow-Fraser Lab, McMaster University

Sept 2018 - Present

- Developed a site to aggregate, **analyze & visualize data** from conservation regions across Canada to enable users to self-report chlorophyll levels in natural water reserves
- Utilized PHP to collect data and communicate with remote **distributed sensors**, mapped data using Google Maps API

Software Engineer - Pickup www.pick-up.ca

Apr - Aug 2018

- Student founded ride-share **startup incubated** at McMaster that connects students commuting to school
- Coded a matching algorithm using **Firebase** Cloud functions and Firestore database to match riders with drivers
- Directed a team of 3 developers to code front-end components in **React/Grommet** for a cross platform experience

Multi-Organ Transplant Researcher - Toronto General Hospital

May - Aug 2017

- Collaborated on a machine learning algorithm that uses **support vector machines** to classify liver disease, resulting in early diagnosis without biopsy or invasive procedures
- Wrote a script to normalize 10,000+ patient's data in order to train machine learning models
- **Published** in the Canadian Liver Journal; An Integrative Meta Analysis of Genomic Data in NASH

Education

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

Expected Apr 2020

- **Deans Honor List** (2016-2018), Honors Entrance Scholarship, 3.5/4.0 GPA
- Teaching Assistant for Engineering Profession 1P03, evaluating student projects and applying design criteria

Skills

Languages: Java, Python, C, JavaScript, Swift, C++, MATLAB, Verilog/HDL, HTML/CSS, SQL

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

Design: Adobe Photoshop, Adobe Lightroom, Microsoft Office, AutoDesk Inventor, PSpice, Quartus

Projects

Toshi - YHack, Yale University bit.ly/toshapp Dec 2018

- Engineered a **chatbot** using natural language processing
- Utilized the Goldman Sachs Marquee API to give real time stock info & **constructed risk model** from scratch

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

Woke - Personal Project 2018

- Implementing a chat system for a social alarm clock using iOS UI Kit, following MVC principles

Strive - MedHacks bit.ly/striveJHU

Sept 2018

- **2nd** of 200+ teams at Johns Hopkins University
- 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

- Collaborated with a team of 10 planning 15 events for 1200 incoming engineering students
- 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