

Ahmed Fuad Ali

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Experience

Web Developer - Chow-Fraser Lab, McMaster University

Sept 2018 - Present

- Coding and maintaining a website meant to aggregate, **analyze** and **visualize data** from conservation regions across Canada
- Using PHP to communicate with remote **distributed micro-sensors** and collect data to map algae growth trends over time

Software Engineer - Pickup www.pick-up.ca

Apr - Aug 2018

- Pickup is a ride-share startup **incubated** at McMaster University that connects drivers and students commuting to school
- Programmed an interactive and responsive web app in **React**, including a **matching algorithm** to match passengers with drivers
- Coded front-end components in **Grommet** for a dynamic, cross platform experience, alongside a team of 4 developers

Multi-Organ Transplant Researcher - Toronto General Hospital

May - Aug 2017

- Developed a classifying algorithm that uses **support vector machines** and **scikit-learn** to diagnose liver cirrhosis
- Employed data normalization procedures to prepare feature set consisting of 10,000+ patients
- **Published** in the Canadian Liver Journal; An Integrative Meta Analysis of Genomic Data in NASH
- Developed an **Android app** to remind patients to take medications by identifying problems in adherence & interviewing nurses

Skills

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

Tools and Frameworks: Bootstrap, React, Firebase, Google Cloud, Node.JS, Grommet, Flask, Android Studio

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

Education

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

Expected 2020

- Relevant courses: Data Structures and Algorithms, Discrete Mathematics, Intro to Programming, Molecular Biology, Anatomy

Projects

Strive - MedHacks 2018 bit.ly/striveJHU

Sept 2018

- **2nd** of 200+ teams at Johns Hopkins University
- Utilized computer vision (**Google Vision API**) to extract nutritional information from user uploaded pictures of food

WatchSafe - Hack the Valley bit.ly/watchsafe

Feb 2018

- Created a web app that censors inappropriate movie scenes using **SightEngine** at the University of Toronto
- Designed an **algorithm to map API data** to video content

Y-Emote - YHacks 2017 bit.ly/y-emote

Dec 2017

- Developed a web app for sentiment analysis of customer review data using **IBM Watson API** at Yale University

readRelax - DeltaHacks bit.ly/readRelax

Jan 2018

- Coded an algorithm that allows users to use their hand to turn pages in a virtual book, using the LeapMotion controller
- **Top 6 Hack** of 55+ teams at McMaster's hackathon

Extracurriculars

Welcome Week Planning Committee - McMaster Engineering Society bit.ly/wwwcoding

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 and answer keys

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