Ahmed Fuad Ali

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EXPERIENCE

Web Developer - Life Sciences Department, Chow-Fraser Lab, McMaster University   Sept 2018 - Present
- Coding and maintaining a website meant to aggregate, **analyze** and **visualize data** from conservation regions across Ontario
- Using PHP to communicate with remote **micro-controllers** and send data to a central database for processing

Software Engineer - Pickup (**www.pick-up.ca**)   Apr - Aug 2018
- Pickup is a ride-share startup meant to connect drivers and university students commuting to school
- Created an interactive and responsive web application including a **matching algorithm** for passengers and drivers
- Coded components in **React** for a dynamic, cross platform frontend experience, alongside a team of 4 developers

Multi-Organ Transplant Student Researcher - Toronto General Hospital   May - Aug 2017
- Collaborated with a team to develop a **machine learning algorithm** to classify liver disease based on clinical characteristics
- My work was **published** in the Canadian Liver Journal; An Integrative Meta Analysis of Genomic Data in NASH
- Identified problems in patient medication adherence & developed a **mobile app** to remind patients to take medications

SKILLS

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

Tools & Frameworks Bootstrap, React, XCode (iOS), 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
- President's Scholarship (**94%**), completed 4 of 12 months of co-op
- Relevant courses: Data Structures and Algorithms, Discrete Mathematics, Intro to Programming, Molecular Biology, Anatomy

PROJECTS

Strive - (**bit.ly/striveJHU**) MedHacks 2018   Sept 2018
- **Second place** of 750+ hackers at the world's largest medical hackathon at Johns Hopkins University
- Created a socially connected food tracking web app
- Utilized **Google Vision** API to create an algorithm to extract nutritional information from user uploaded pictures of food

Y-Emote - (**bit.ly/y-emote**), YHacks 2017   Dec 2017
- Developed an application for sentiment analysis of text
- Challenge **finalist** out of 30 teams, Yale University

WatchSafe - (**www.watchingyour.tech**)   Feb 2018
- Utilized **computer vision** (SightEngine API) to scan videos and censor inappropriate video sections at **HackTheValley II**
- Designed algorithm to map API data to video content
- Graphed live scanning results using Plot.ly and socket.io

readRelax - (**bit.ly/readRelax**) DeltaHacks   Jan 2018
- Built an application that allows clients to use their hand to turn pages in a virtual book, **Top 6 Hack** of 55+ teams
- Programmed an **algorithm** to translate hand motion into a representational vector via motion sensor

EXTRACURRICULARS

Welcome Week Planning Committee - (**bit.ly/wwcoding**) McMaster Engineering Society   Jan - Sept 2018
- Part of a team of 10 planning 15 events for 1200+ incoming students to the engineering faculty
- Led the organization of a coding challenge **sponsored by AMD** for 130+ students & created a submission system