# Ahmed Fuad Ali

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## 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

## Experience

**Web Developer** - Chow-Fraser Lab, McMaster University — Sept 2018 - Present
- Developed a site to aggregate, **analyze** & **visualize data** from conservation regions across Canada
- 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
- Designed a responsive web app in **React**, including a matching algorithm to match riders with drivers
- Collaborated with a team of 4 to coded front-end components in **Grommet** for a dynamic, cross platform experience

**Multi-Organ Transplant Researcher** - Toronto General Hospital — May - Aug 2017
- Created a machine learning algorithm that uses **support vector machines** and **scikit-learn** to classify liver disease
- 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 in **Android Studio** to remind patients to take their medications

## Education

**B.Eng, Electrical and Biomedical Engineering (Co-op)** - McMaster University — Expected Apr 2020
- Relevant courses: Data Structures & Algorithms, Discrete Math, Intro to Programming, Calculus, Statistics
- **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

## Projects

**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

**Y-Emote** - YHacks bit.ly/y-emote — Dec 2017
- Coded a web app for **sentiment analysis** of customer review data using IBM Watson API at Yale University

**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
- Designed an algorithm to map API data to video content

**readRelax** - DeltaHacks bit.ly/readRelax — Jan 2018
- Devised an algorithm that allows users to use their hand to turn pages in a 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/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